

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	276	514/28	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/11/01 13:36
L2	2	l1 and (bridged AND macrocyclic)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/11/01 13:37
L3	145	l1 and (macrocyclic or \$thromycin)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/11/01 13:48
L4	12	l3 and bridge\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/11/01 13:42
L5	461	536/7.1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/11/01 13:41
L6	196	l5 and (macrocyclic or \$thromycin)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/11/01 13:48
L7	11	l6 and bridge\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/11/01 13:48
L8	5692	macrolide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/11/01 13:48
L9	573	l8 and bridge\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/11/01 13:48
L10	233	l9 and \$thromycin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/11/01 13:49
L11	230	l10 and (process or method or making or production or synth\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/11/01 13:51

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NEWS 15 OCT 27 EPFULL enhanced with additional content

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AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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FILE 'HOME' ENTERED AT 14:34:09 ON 01 NOV 2005

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:34:24 ON 01 NOV 2005

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DICTIONARY FILE UPDATES: 31 OCT 2005 HIGHEST RN 866452-21-3

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```
*****  
*  
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* the IDE default display format and the ED field has been added, *  
* effective March 20, 2005. A new display format, IDERL, is now *  
* available and contains the CA role and document type information. *  
*  
*****
```

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<http://www.cas.org/ONLINE/UG/regprops.html>

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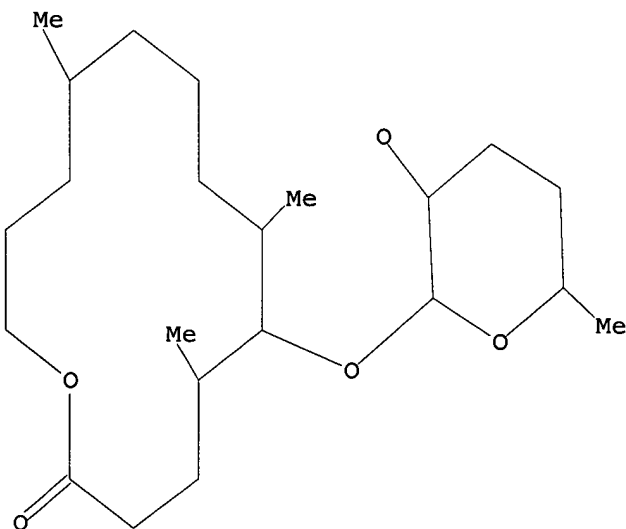
Uploading C:\Documents and Settings\GKrishnan\My Documents\10763377.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam

SAMPLE SEARCH INITIATED 14:35:23 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1792 TO ITERATE

100.0% PROCESSED 1792 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

50 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 33301 TO 38379
PROJECTED ANSWERS: 13376 TO 16664

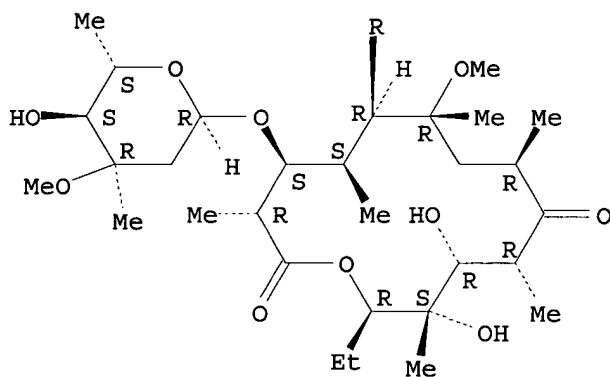
L2 50 SEA SSS SAM L1

=> d scan

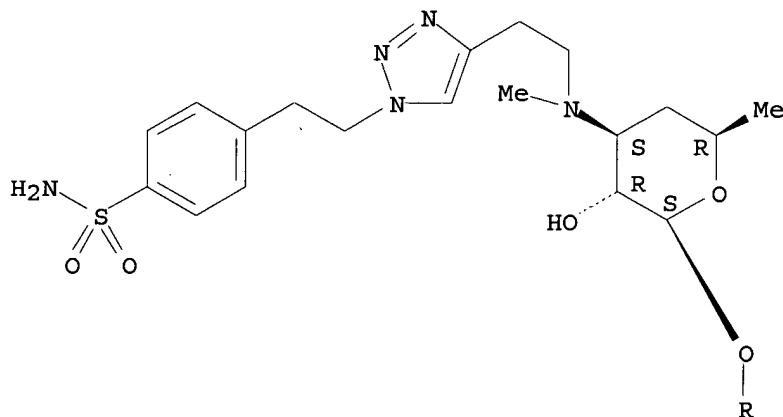
L2 50 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Erythromycin, N-[2-[1-[2-[4-(aminosulfonyl)phenyl]ethyl]-1H-1,2,3-triazol-4-yl]ethyl]-N-demethyl-6-O-methyl- (9CI)
MF C49 H81 N5 O15 S

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

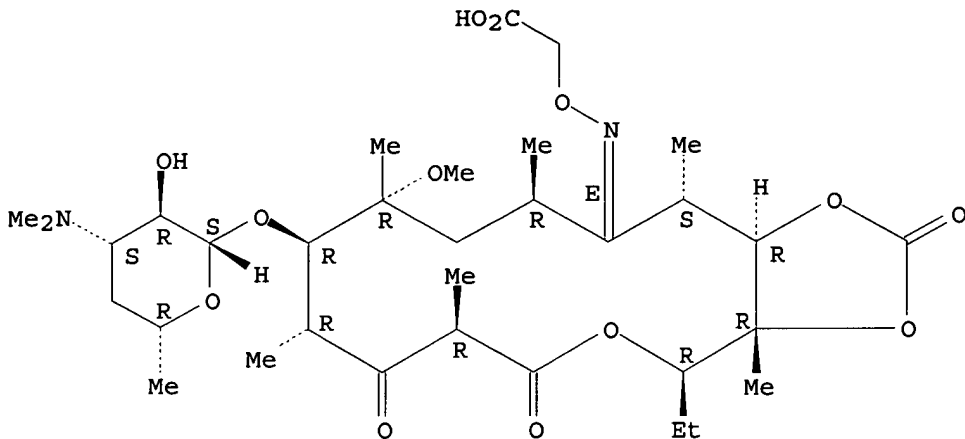


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L2 50 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Erythromycin, 3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl-alpha-L-ribohexopyranosyl)oxy]-6-O-methyl-3-oxo-, 9-[O-(carboxymethyl)oxime], cyclic 11,12-carbonate, (9E)-(9CI)
MF C33 H54 N2 O13

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> s l1 sss full

FULL SEARCH INITIATED 14:35:54 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 37729 TO ITERATE

100.0% PROCESSED 37729 ITERATIONS
SEARCH TIME: 00.00.01

15690 ANSWERS

L3 15690 SEA SSS FUL L1

=> s l3 and bridg?

110 BRIDG?

L4 0 L3 AND BRIDG?

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

167.22

167.43

FILE 'CAPLUS' ENTERED AT 14:36:34 ON 01 NOV 2005

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FILE COVERS 1907 - 1 Nov 2005 VOL 143 ISS 19

FILE LAST UPDATED: 31 Oct 2005 (20051031/ED)

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=> s 13 and bridg?
17468 L3
162982 BRIDG?
L5 25 L3 AND BRIDG?

=> s 15 and (aithromycin or desmethyl or roxithromycin or clarithromycin or telithromycin or cethromycin)

0 AITHROMYCIN
1411 DESMETHYL
1217 ROXITHROMYCIN
3967 CLARITHROMYCIN
2 CLARITHROMYCINS
3967 CLARITHROMYCIN
(CLARITHROMYCIN OR CLARITHROMYCINS)
517 TELITHROMYCIN
2 TELITHROMYCINS
518 TELITHROMYCIN
(TELITHROMYCIN OR TELITHROMYCINS)
39 CETHROMYCIN

L6 3 L5 AND (AITHROMYCIN OR DESMETHYL OR ROXITHROMYCIN OR CLARITHROMY
CIN OR TELITHROMYCIN OR CETHROMYCIN)

=> dis 16 1-3 bib abs hitstr

L6 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:304995 CAPLUS

DN 143:282411

TI First description of Curtobacterium spp. isolated from human clinical
specimens

AU Funke, Guido; Aravena-Roman, Max; Frodl, Reinhard

CS Department of Medical Microbiology and Hygiene, Gaertner & Colleagues
Laboratories, Weingarten, Germany

SO Journal of Clinical Microbiology (2005), 43(3), 1032-1036

CODEN: JCMIDW; ISSN: 0095-1137

PB American Society for Microbiology

DT Journal

LA English

AB During a 4-yr period, five strains (three of which were doubtless clin.
significant) of yellow- or orange-pigmented, oxidative, slowly
acid-producing coryneform bacteria were recovered from human clin.
specimens in two reference labs. or referred to them. The strains were motile,
catalase pos., nitrate reductase neg., and urease neg., but strongly
hydrolyzed esculin. In all reference and clin. strains described in the
present study, anteisopentadecanoic (C15:0ai) and anteisoheptadecanoic
(C17:0ai) acids represented more than 75% of all cellular fatty acids
except in one clin. strain and in Curtobacterium pusillum, in which both
the unusual o-cyclohexyl fatty acid (identified as
C18:1o7cis/o9cis/o12trans by the Sherlock system) represented more than
50% of all cellular fatty acids. In all clin. strains, ornithine was the
diamino acid of the cell wall, the interpeptide **bridge** consisted
of ornithine, and acetyl was the acyl type of the peptidoglycan.
Therefore, the five clin. strains were unambiguously identified as
Curtobacterium spp. Analyses of the complete 16S rRNA genes of the five
clin. strains with homologies to the established Curtobacterium species
ranging from 99.2 to 100% confirmed the identifications as Curtobacterium
spp. Data on the antimicrobial susceptibility pattern of curtobacteria
are reported, with macrolides and rifampin showing very low MICs for all
strains tested. This report is the first on the isolation of
Curtobacterium strains from human clin. specimens.

IT 114-07-8, Erythromycin 81103-11-9,

Clarithromycin

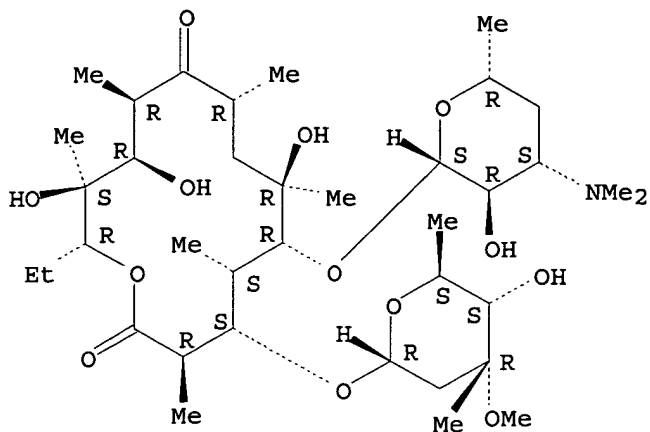
RL: BSU (Biological study, unclassified); BIOL (Biological study)

(first description of Curtobacterium spp. isolated from human clin.
specimens)

RN 114-07-8 CAPLUS

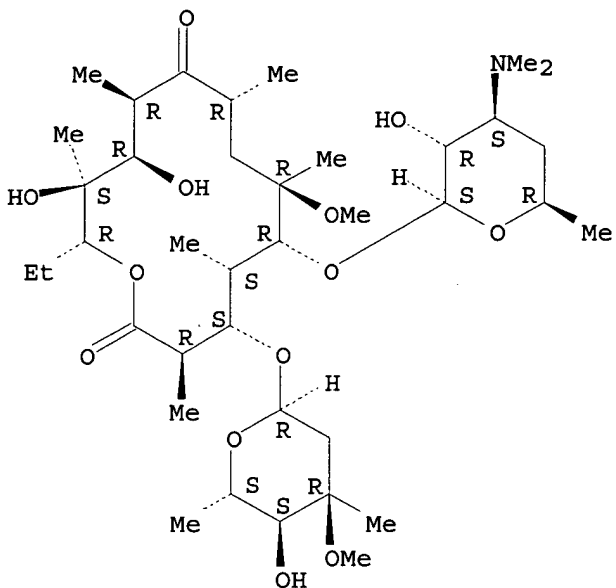
CN Erythromycin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 81103-11-9 CAPLUS
 CN Erythromycin, 6-O-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

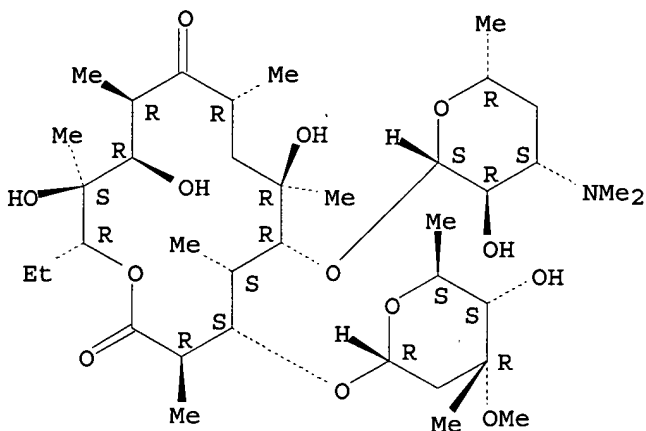
L6 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2005:38025 CAPLUS
 DN 142:253741
 TI Binding site of the bridged macrolides in the Escherichia coli ribosome
 AU Xiong, Liqun; Korkhin, Yakov; Mankin, Alexander S.
 CS Center for Pharmaceutical Biotechnology, University of Illinois, Chicago, IL, USA
 SO Antimicrobial Agents and Chemotherapy (2005), 49(1), 281-288
 CODEN: AMACCO; ISSN: 0066-4804
 PB American Society for Microbiology
 DT Journal
 LA English
 AB Ketolides represent the latest group of macrolide antibiotics. Tight binding of ketolides to the ribosome appears to correlate with the presence of an extended alkyl-aryl side chain. Recently developed 6,11-bridged bicyclic ketolides extend the spectrum of platforms used to generate new potent macrolides with extended alkyl-aryl side chains. The purpose of the present study was to characterize the site of binding and the action of bridged macrolides in the ribosomes of

Escherichia coli. All the bridged macrolides investigated efficiently protected A2058 and A2059 in domain V of 23S rRNA from modification by di-Me sulfate and U2609 from modification by carbodiimide. In addition, bridged macrolides that carry extended alkyl-aryl side chains protruding from the 6,11 bridge protected A752 in helix 35 of domain II of 23S rRNA from modification by di-Me sulfate. Bridged macrolides efficiently displaced erythromycin from the ribosome in a competition binding assay. The A2058G mutation in 23S rRNA conferred resistance to the bridged macrolides. The U2609C mutation, which renders E. coli resistant to the previously studied ketolides telithromycin and cethromycin, barely affected cell susceptibility to the bridged macrolides used in this study. The results of the biochem. and genetic studies indicate that in the E. coli ribosome, bridged macrolides bind in the nascent peptide exit tunnel at the site previously described for other macrolide antibiotics. The presence of the side chain promotes the formation of specific interactions with the helix 35 of 23S rRNA.

IT 114-07-8, Erythromycin 191114-48-4,
 Telithromycin 205110-48-1, Cethromycin
 748796-41-0 846590-06-5 846590-07-6
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (binding site of bridged macrolides in Escherichia coli
 ribosome)

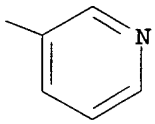
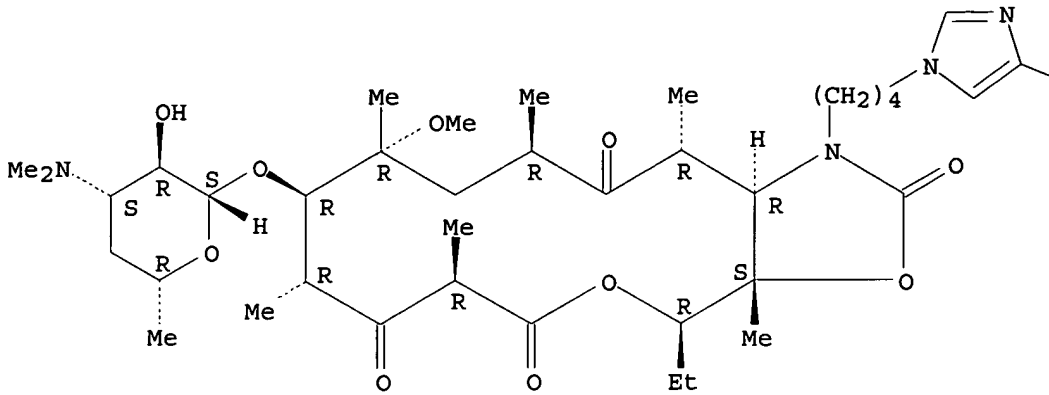
RN 114-07-8 CAPLUS
 CN Erythromycin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



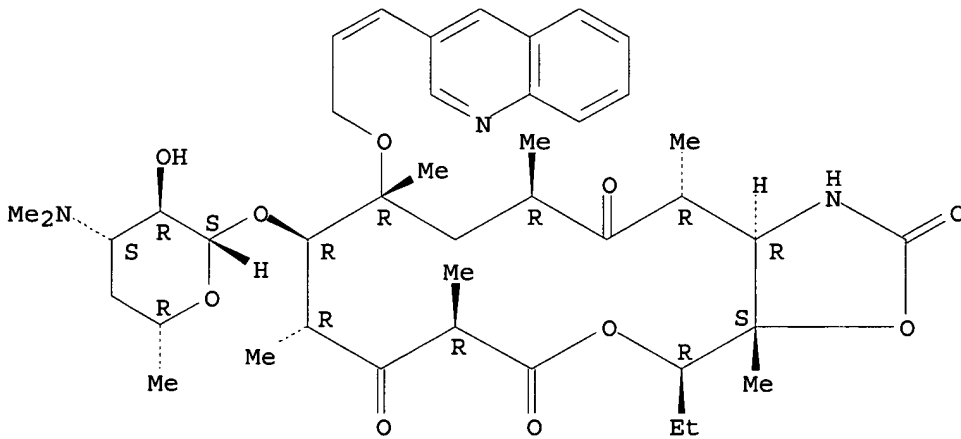
RN 191114-48-4 CAPLUS
 CN 2H-Oxacyclotetradecino[4,3-d]oxazole-2,6,8,14(1H,7H,9H)-tetrone,
 4-ethyloctahydro-11-methoxy-3a,7,9,11,13,15-hexamethyl-1-[4-[4-(3-
 pyridinyl)-1H-imidazol-1-yl]butyl]-10-[[3,4,6-trideoxy-3-(dimethylamino)-
 β -D-xylo-hexopyranosyl]oxy]-, (3aS,4R,7R,9R,10R,11R,13R,15R,15aR)-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.

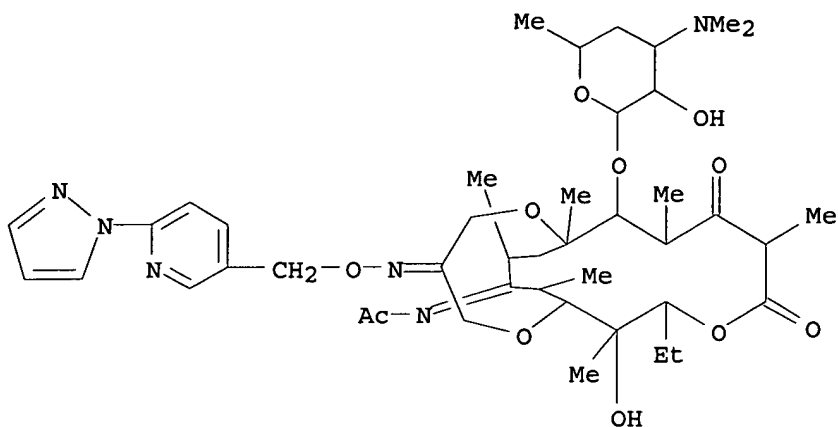


RN 205110-48-1 CAPLUS
 CN 2H-Oxacyclotetradecino[4,3-d]oxazole-2,6,8,14(1H,7H,9H)-tetrone,
 4-ethyloctahydro-3a,7,9,11,13,15-hexamethyl-11-[[3-(3-quinolinyl)-2-
 propenyl]oxy]-10-[[3,4,6-trideoxy-3-(dimethylamino)-β-D-xylo-
 hexopyranosyl]oxy]-, (3aS,4R,7R,9R,10R,11R,13R,15R,15aR)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

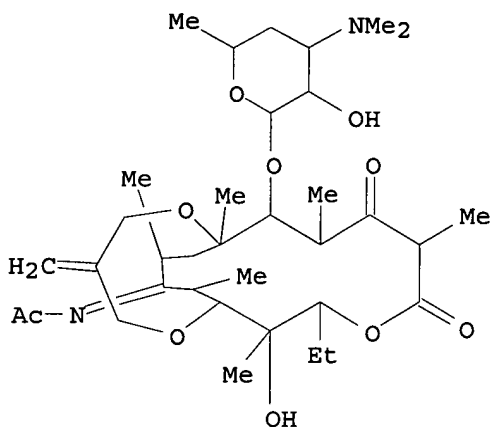


RN 748796-41-0 CAPLUS
 CN Erythromycin, 9-(acetylmino)-3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl-
 α-L-ribo-hexopyranosyl)oxy]-9-deoxy-3-oxo-6,11-O-[2-[[[6-(1H-pyrazol-
 1-yl)-3-pyridinyl]methoxy]imino]-1,3-propanediyl]- (9CI) (CA INDEX NAME)



RN 846590-06-5 CAPLUS

CN Erythromycin, 9-(acetylimino)-3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)oxy]-9-deoxo-6,11-O-(2-methylene-1,3-propanediyl)-3-oxo- (9CI) (CA INDEX NAME)

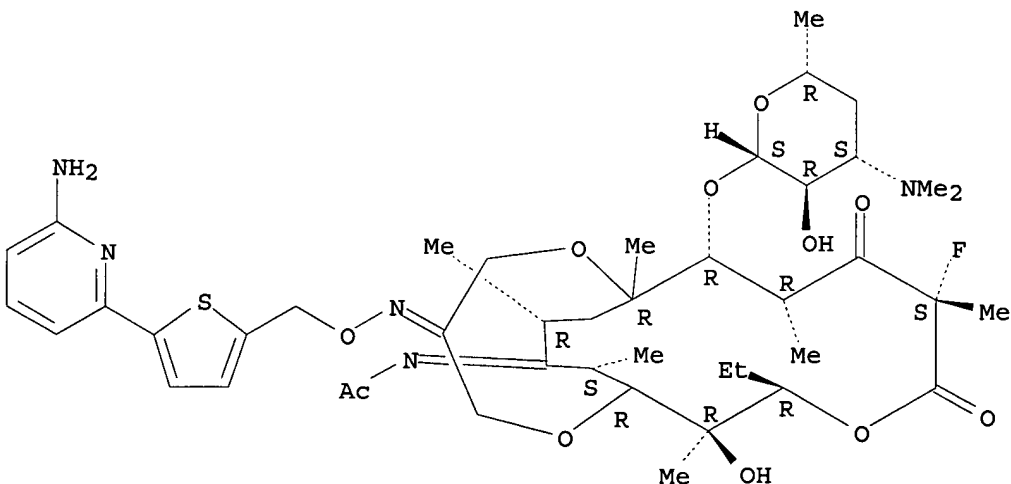


RN 846590-07-6 CAPLUS

CN Erythromycin, 9-(acetylimino)-6,11-O-[2-[[[5-(6-amino-2-pyridinyl)-2-thienyl]methoxy]imino]-1,3-propanediyl]-3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)oxy]-9-deoxo-2-fluoro-3-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.



ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2002:449852 CAPLUS
 DN 137:29660

TI X-ray crystal structures of functional *Thermus thermophilus* ribosome complexes containing tRNA and model mRNAs and their use in pharmacophore design

IN Noller, Harry F.; Cate, Jamie H. D.; Yusupov, Marat M.; Yusupova, Gulnara Zh.; Baucom, Albion E.; Lancaster, Laura; Dallas, Anne; Lieberman, Kathy

PA The Regents of the University of California, USA

SO PCT Int. Appl., 527 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002046392	A2	20020613	WO 2001-US47975	20011210
	WO 2002046392	A3	20030605		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002041614	A5	20020618	AU 2002-41614	20011210
	US 2002188108	A1	20021212	US 2001-13379	20011210
	EP 1351982	A2	20031015	EP 2001-988295	20011210
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004532972	T2	20041028	JP 2002-548110	20011210
PRAI	US 2000-254603P	P	20001209		
	US 2001-278013P	P	20010322		
	US 2001-294394P	P	20010530		
	WO 2001-US47975	W	20011210		

AB Structures of *Thermus thermophilus* 70S ribosome complexes containing mRNA, tRNA, or tRNA analogs, are solved by x-ray crystallog. at up to 5.5 Å resolution. Many details of the interactions between tRNA and the ribosome, and of the packing arrangement of rRNA helices in and between the ribosomal subunits can be seen. Numerous contacts are made between the 30S subunit and the P-tRNA anticodon stem-loop; in contrast, the anticodon region of A-tRNA is much more exposed. A complex network of mol. interactions suggestive of a functional relay is centered around the long penultimate stem of 16S rRNA at the subunit interface, including interactions involving the "switch" helix and decoding site of 16S rRNA and RNA bridges from the 50S subunit. The resolution of the 5.5 Å resolution map was enhanced by fitting atomic resolution structures of 30S and 50S subunits onto the 5.5 Å electron d. map. The enhanced structure reveals regions of structural differences between the 70S complex and the structures of the individual 30S and 50S components. Pharmacophore design to discover novel inhibitors or activators may be carried out using the enhanced 5.5 Å 70S structure.

IT 114-07-8, Erythromycin 80214-83-1, Roxithromycin 81103-11-9, Clarithromycin

RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

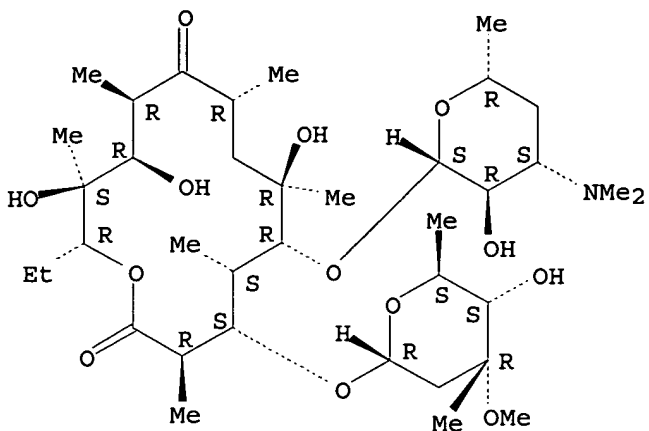
(pharmacophore design from; x-ray crystal structures of functional

Thermus thermophilus ribosome complexes containing tRNA and model mRNAs and their use in pharmacophore design)

RN 114-07-8 CAPLUS

CN Erythromycin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

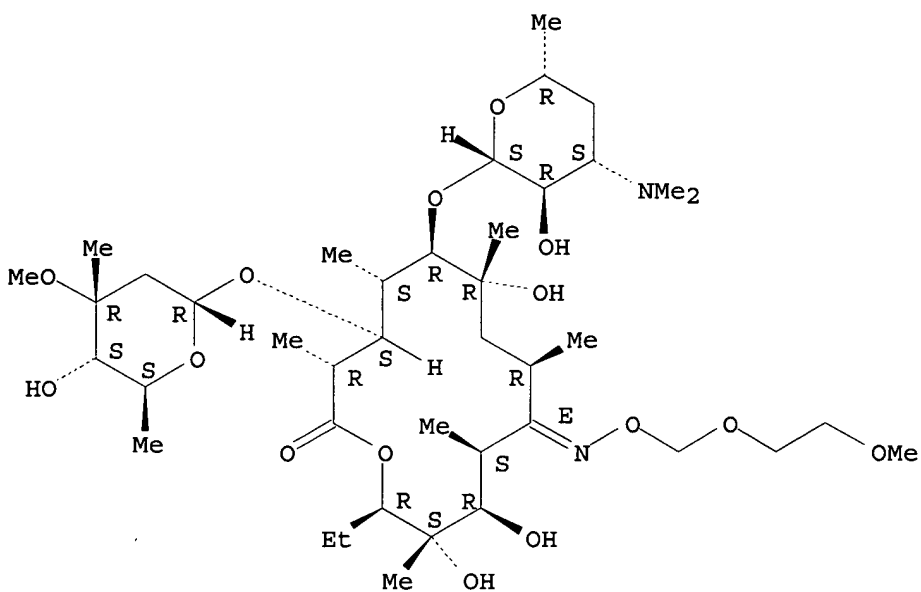


RN 80214-83-1 CAPLUS

CN Erythromycin, 9-[O-[(2-methoxyethoxy)methyl]oxime], (9E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

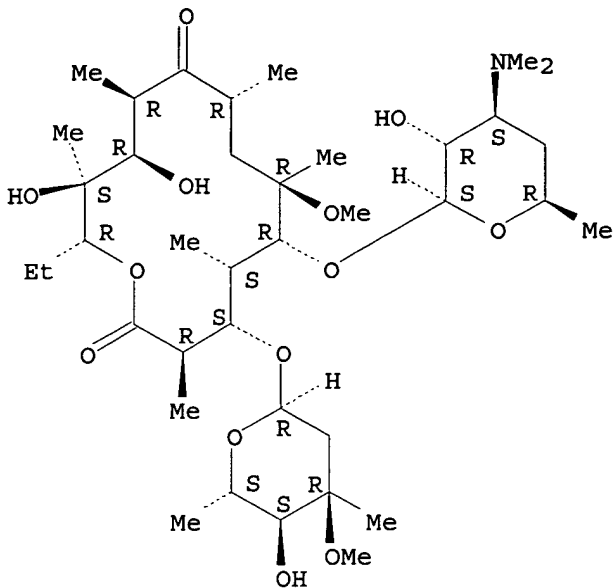
Double bond geometry as shown.



RN 81103-11-9 CAPLUS

CN Erythromycin, 6-O-methyl-, (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> s 15 and (process or method or production or synth?)

2164417 PROCESS
 1450535 PROCESSES
 3221704 PROCESS
 (PROCESS OR PROCESSES)
 2967256 METHOD
 1220871 METHODS
 3844791 METHOD
 (METHOD OR METHODS)
 577448 PRODUCTION
 2956 PRODUCTIONS
 579606 PRODUCTION
 (PRODUCTION OR PRODUCTIONS)
 903510 PRODN
 528 PRODNS
 903690 PRODN
 (PRODN OR PRODNS)
 1240865 PRODUCTION
 (PRODUCTION OR PRODN)
 2082037 SYNTH?

L7 12 L5 AND (PROCESS OR METHOD OR PRODUCTION OR SYNTH?)

=> dis 17 1-12 bib abs hitstr

L7 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2005:34589 CAPLUS
 DN 142:114362
 TI Preparation of glycoside bridged macrocyclic compounds as
 antibacterial agents
 IN Or, Yat Sun
 PA USA
 SO U.S. Pat. Appl. Publ., 21 pp., Cont.-in-part of U.S. Ser. No. 464,188.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 10

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005009761	A1	20050113	US 2004-763377	20040123
	US 2004023895	A1	20040205	US 2002-205018	20020725
	US 6841664	B2	20050111		
	US 6753318	B1	20040622	US 2002-205357	20020725
	US 2005037982	A1	20050217	US 2003-429485	20030505
	US 6878691	B2	20050412		

US 2004053861	A1	20040318	US 2003-436622	20030513
US 6764998	B1	20040720	US 2003-464188	20030618
PRAI US 2002-144396	B2	20020513		
US 2002-144558	B2	20020513		
US 2002-205018	A2	20020725		
US 2002-205357	A2	20020725		
US 2003-429485	A2	20030505		
US 2003-436622	A2	20030513		
US 2003-464188	A2	20030618		
OS MARPAT 142:114362				
GI				

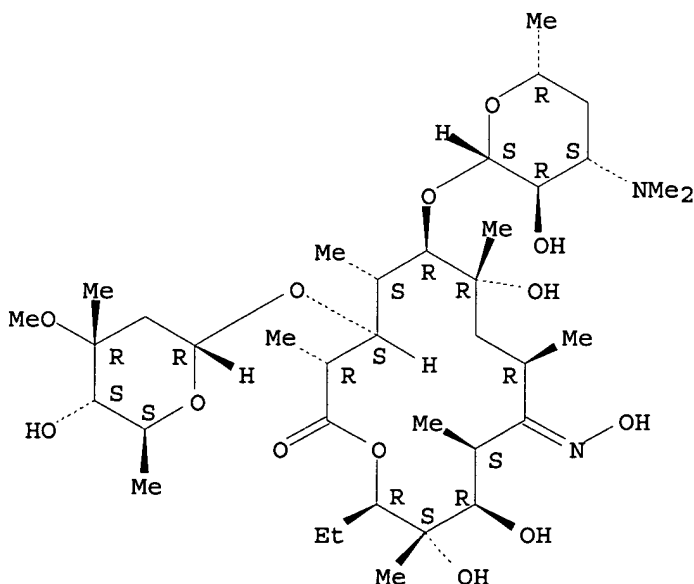
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The present invention provides a method for preparing bridged macrocyclic glycosides, e.g. I, wherein R is H, acyl, silane, hydroxy protecting group; L and R3 are independently H, aliphatic, alicyclic, aromatic, heteroarom., heterocyclic; one of U or V is H and the other is independently selected from R4, , OR4, OC(O)R4, oxy-amide, S(O)nR4, sugar residue; R4 is H, deuterium, alkyl, alicyclic, aromatic, heterocyclic; U and V, taken together with the carbon atom to which they are attached, are C:O, or UV and R1R2, taken together with the carbon atoms to which they are attached, are -C(R4)CH-; X and Y together with the carbon atom to which they are attached are CO, imine, oxime; X1 is H or halogen; n is 0-2, comprising the step of reacting a macrocyclic compound characterized by having at least two nucleophilic moieties with a bi-functional bridging reagent optionally in the presence of a catalyst, thereby producing a bridged macrocyclic product. Thus, macrolide II was prepared as potential antibacterial agent. This invention also encompasses pharmaceutical compns. containing, and methods of treating bacterial infections through administering, pharmaceutically acceptable prodrugs of compds. produced by the process of the present invention (no data).

IT 13127-18-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of glycoside bridged macrocyclic compds. as antibacterial agents)

RN 13127-18-9 CAPLUS
 CN Erythromycin, 9-oxime (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



IT 314050-27-6P 625390-08-1P 652150-16-8P
823802-96-6P 823802-97-7P 823802-99-9P
823803-00-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

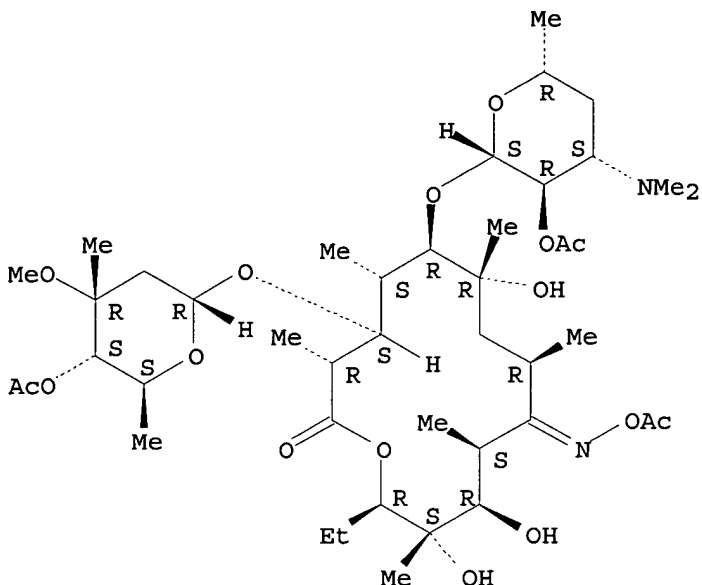
(preparation of glycoside bridged macrocyclic compds. as
antibacterial agents)

RN 314050-27-6 CAPLUS

CN Erythromycin, 9-(O-acetyloxime), 2',4''-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

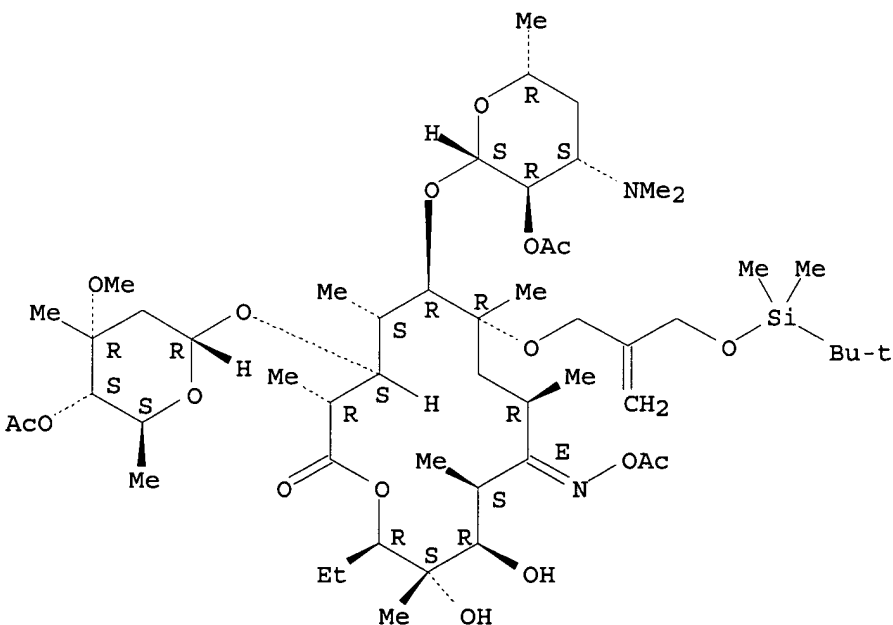


RN 625390-08-1 CAPLUS

CN Erythromycin, 6-O-[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-2-propenyl]-, 9-(O-acetyloxime), 2',4''-diacetate, (9E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

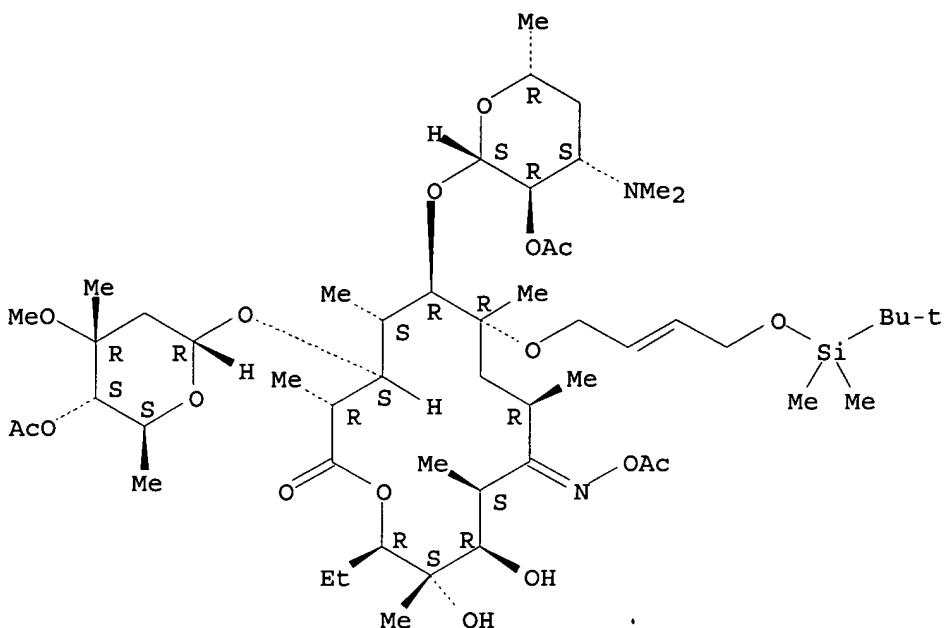
Double bond geometry as shown.



RN 652150-16-8 CAPLUS

CN Erythromycin, 6-O-[4-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-butenyl]-, 9-(O-acetyloxime), 2',4''-diacetate (9CI) (CA INDEX NAME)

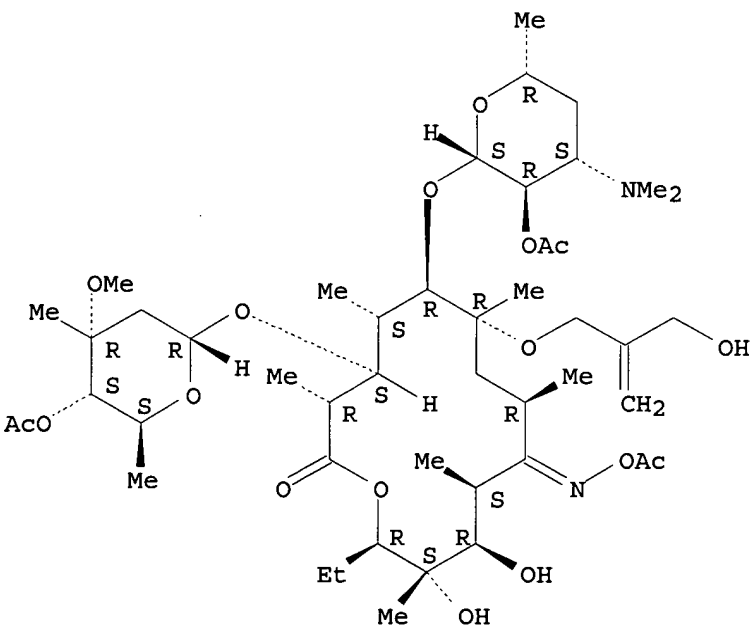
Absolute stereochemistry.
Double bond geometry unknown.



RN 823802-96-6 CAPLUS

CN Erythromycin, 6-O-[2-(hydroxymethyl)-2-propenyl]-, 9-(O-acetyloxime), 2',4''-diacetate (9CI) (CA INDEX NAME)

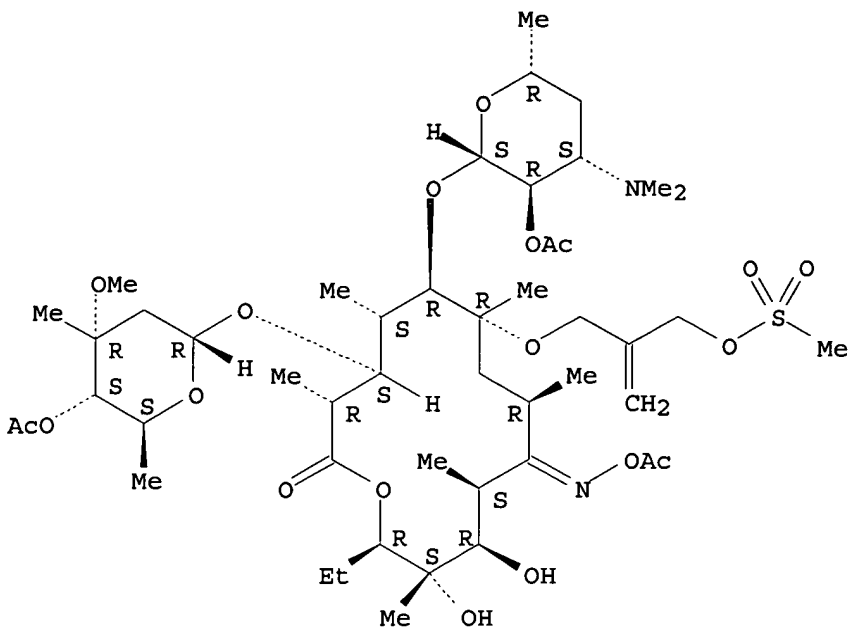
Absolute stereochemistry.
Double bond geometry unknown.



RN 823802-97-7 CAPLUS

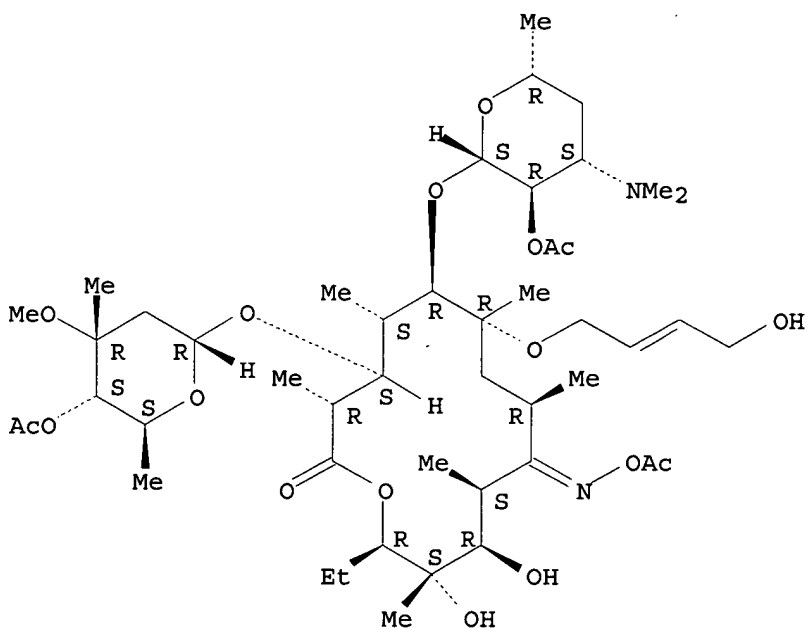
CN Erythromycin, 6-O-[2-[[[(methylsulfonyl)oxy]methyl]-2-propenyl]-, 9-(O-acetyloxime), 2',4''-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



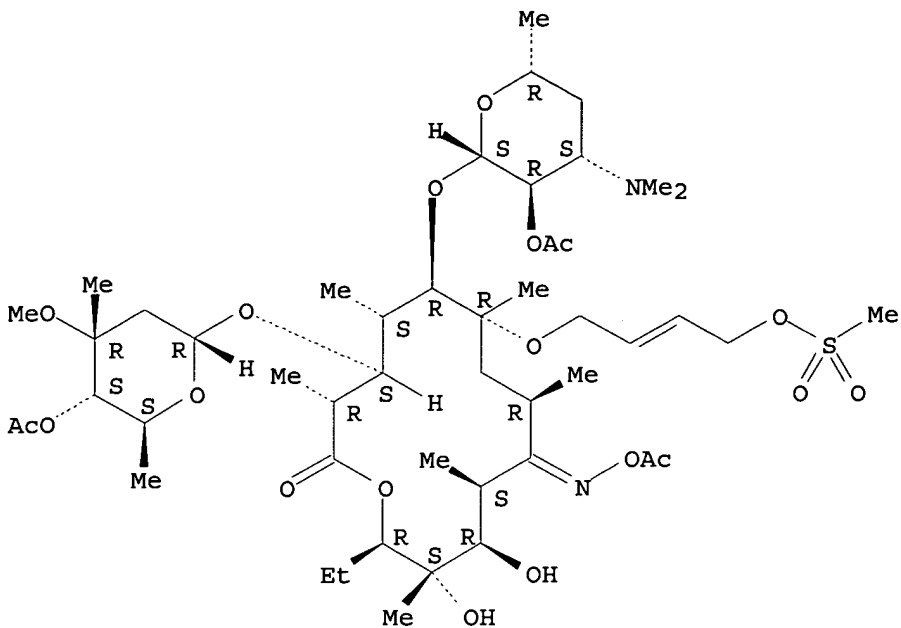
RN 823802-99-9 CAPLUS
 CN Erythromycin, 6-O-(4-hydroxy-2-butenyl)-, 9-(O-acetyloxime),
 2',4''-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



RN 823803-00-5 CAPLUS
 CN Erythromycin, 6-O-[4-[(methylsulfonyl)oxy]-2-butenyl]-, 9-(O-acetyloxime),
 2',4''-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



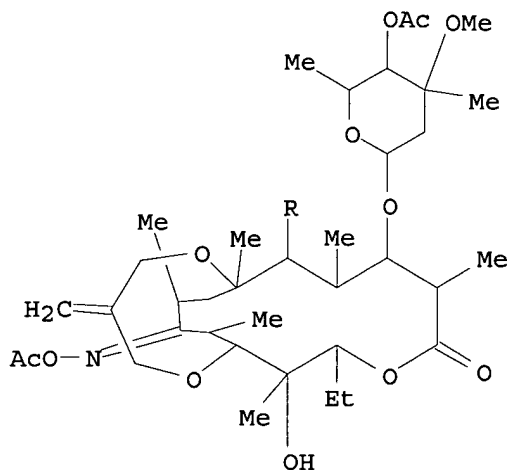
IT 620161-76-4P 823802-98-8P 823803-01-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of glycoside bridged macrocyclic compds. as
 antibacterial agents)

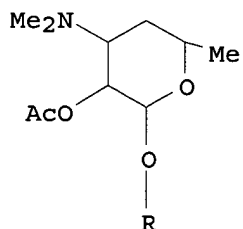
RN 620161-76-4 CAPLUS

CN Erythromycin, 6,10-O-(2-methylene-1,3-propanediyl)-, 9-(O-acetyloxime),
 2',4''-diacetate (9CI) (CA INDEX NAME)

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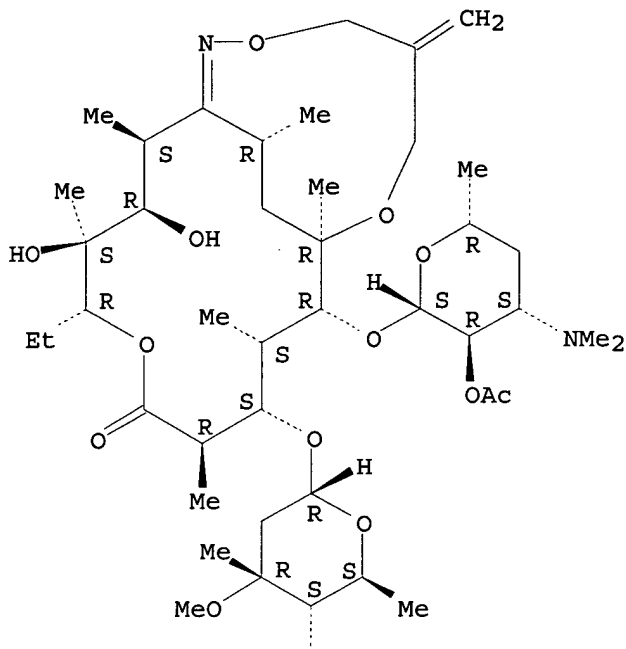


RN 823802-98-8 CAPLUS

CN 6,13,17-Trioxa-18-azabicyclo[10.6.2]eicos-1(18)-en-7-one,
9-[(4-O-acetyl-2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-
hexopyranosyl)oxy]-11-[[2-O-acetyl-3,4,6-trideoxy-3-(dimethylamino)- β -
D-xylo-hexopyranosyl]oxy]-5-ethyl-3,4-dihydroxy-2,4,8,10,12,19-hexamethyl-
15-methylene-, (2S,3R,4S,5R,8R,9S,10S,11R,12R,19R) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



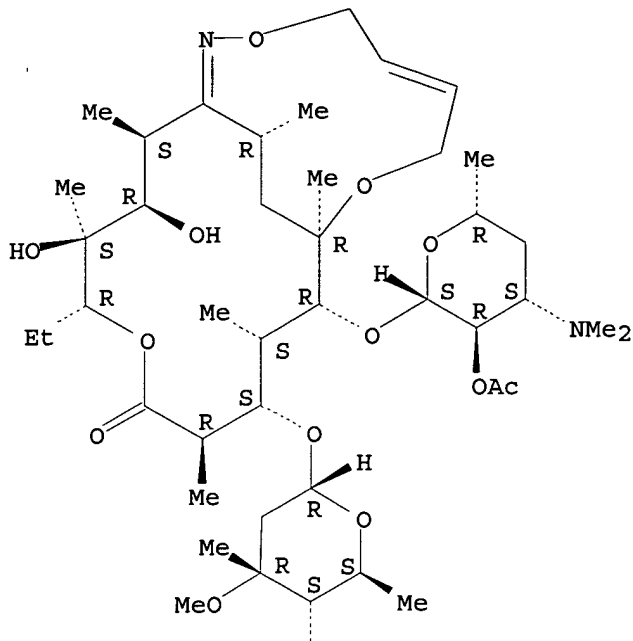
PAGE 2-A

OAc

RN 823803-01-6 CAPLUS

CN 6,13,18-Trioxa-19-azabicyclo[10.7.2]heneicosa-1(19),15-dien-7-one,
9-[(4-O-acetyl-2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-
hexopyranosyl)oxy]-11-[[2-O-acetyl-3,4,6-trideoxy-3-(dimethylamino)- β -
D-xylo-hexopyranosyl]oxy]-5-ethyl-3,4-dihydroxy-2,4,8,10,12,20-hexamethyl-
, (2S,3R,4S,5R,8R,9S,10S,11R,12R,20R) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

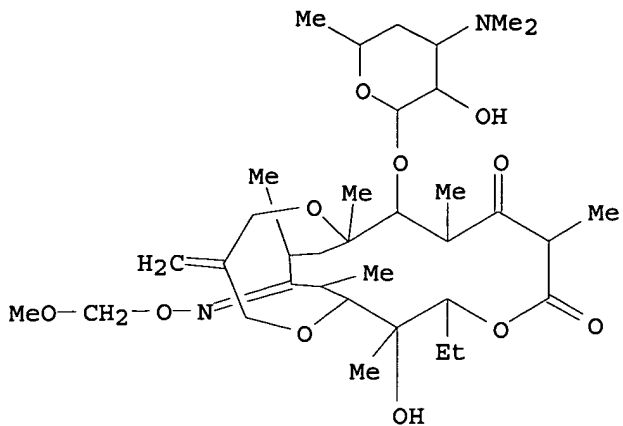


OAc

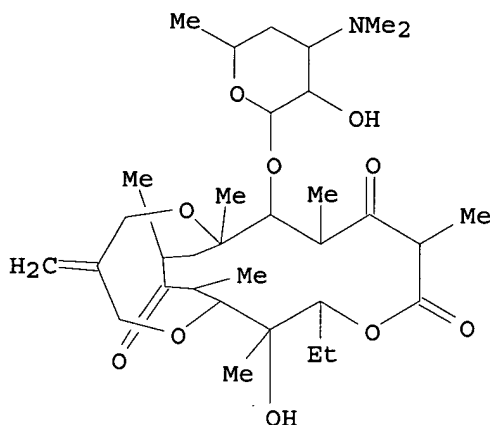
L7 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:890622 CAPLUS
 DN 142:56597
 TI **Synthesis of Novel 6,11-O-Bridged Bicyclic Ketolides**
 via a Palladium-Catalyzed Bis-allylation
 AU Wang, Guoqiang; Niu, Deqiang; Qiu, Yao-Ling; Phan, Ly Tam; Chen, Zhigang;
 Polemeropoulos, Alexander; Or, Yat Sun
 CS Enanta Pharmaceuticals, Inc., Watertown, MA, 02472, USA
 SO Organic Letters (2004), 6(24), 4455-4458
 CODEN: ORLEF7; ISSN: 1523-7060
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 142:56597
 AB A bridging chemical process was developed to form an ether bridge between 6-O and 11-O of erythromycin A via a tandem or stepwise palladium-catalyzed bis- π -allylation. By applying this bridging process, new 6,11-O-bridged bicyclic ketolides (BBKs) were synthesized. These BBKs showed good antibacterial activities against the macrolide-susceptible strains as well as mef-resistant strains and served as a good core for further modifications to study the structure-activity relationship (SAR) and to overcome bacterial resistance.

IT 628698-70-4P 628702-87-4P
 RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);
 BIOL (Biological study); PREP (Preparation)
 (antibacterial activity; **synthesis of 6,11-O-bridged**
 bicyclic ketolides via a palladium-catalyzed bis-allylation or stepwise
 6-O,11-O-dialkylation)

RN 628698-70-4 CAPLUS
 CN Erythromycin, 3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-
 hexopyranosyl)oxy]-6,11-O-(2-methylene-1,3-propanediyl)-3-oxo-,
 9-[O-(methoxymethyl)oxime], (9E)-(9CI) (CA INDEX NAME)

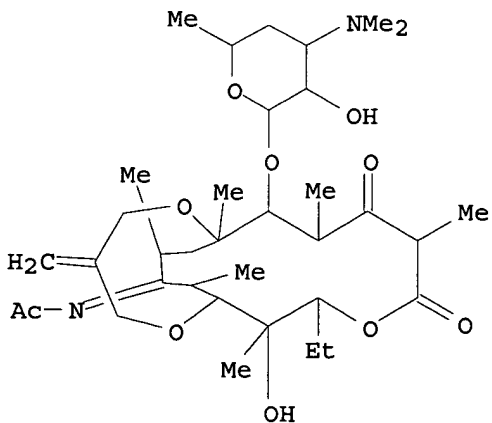


RN 628702-87-4 CAPLUS
 CN Erythromycin, 3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribohexopyranosyl)oxy]-6,11-O-(2-methylene-1,3-propanediyl)-3-oxo- (9CI) (CA INDEX NAME)



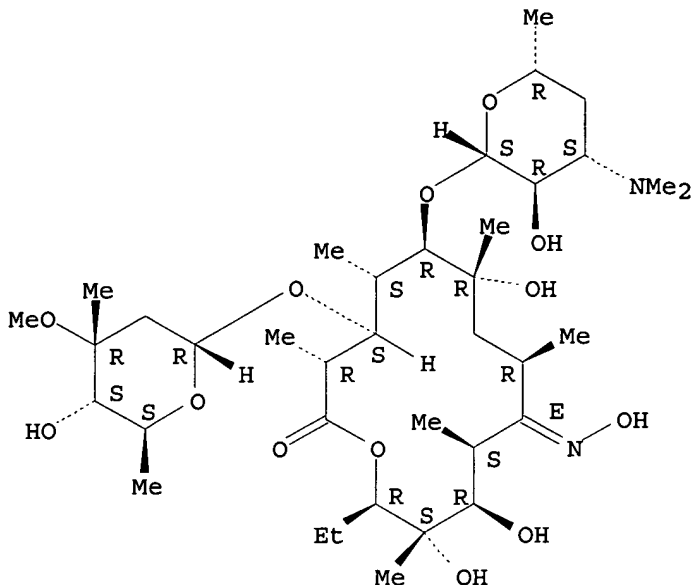
IT 628698-53-3P
 RL: BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (crystal structure of; **synthesis of 6,11-O-bridged**
 bicyclic ketolides via a palladium-catalyzed bis-allylation or stepwise
 6-O,11-O-dialkylation)

RN 628698-53-3 CAPLUS
 CN Erythromycin, 9-(acetylimino)-3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribohexopyranosyl)oxy]-9-deoxo-6,11-O-(2-methylene-1,3-propanediyl)-3-oxo-, (9E) - (9CI) (CA INDEX NAME)



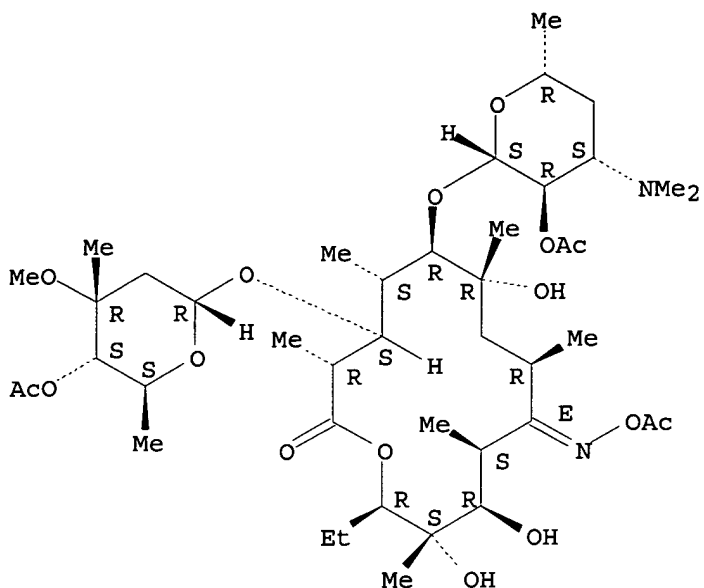
IT 111321-02-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis of 6,11-O-bridged bicyclic ketolides via
a palladium-catalyzed bis-allylation or stepwise 6-O,11-O-dialkylation)
RN 111321-02-9 CAPLUS
CN Erythromycin, 9-oxime, (9E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



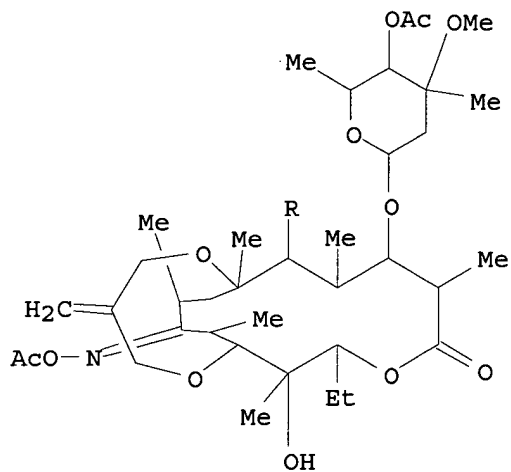
IT 625389-96-0P 625389-97-1P 625390-05-8P
625390-08-1P 625390-12-7P 625390-14-9P
625390-16-1P 625390-18-3P 625390-20-7P
625390-28-5P 628698-52-2P 628698-69-1P
628702-86-3P 628703-03-7P 808765-29-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(synthesis of 6,11-O-bridged bicyclic ketolides via
a palladium-catalyzed bis-allylation or stepwise 6-O,11-O-dialkylation)
RN 625389-96-0 CAPLUS
CN Erythromycin, 9-(O-acetyloxime), 2',4''-diacetate, (9E)- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.
Double bond geometry as shown.

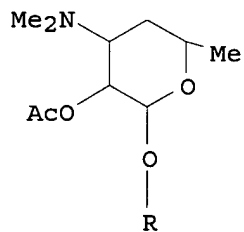


RN 625389-97-1 CAPLUS
 CN Erythromycin, 6,10-O-(2-methylene-1,3-propanediyl)-, 9-(O-acetyloxime),
 2',4''-diacetate, (9E)-(9CI) (CA INDEX NAME)

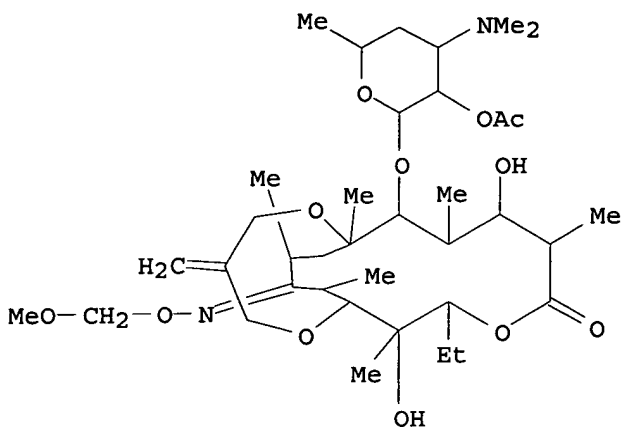
PAGE 1-A



PAGE 2-A



RN 625390-05-8 CAPLUS
 CN Erythromycin, 3-O-de(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-
 hexopyranosyl)-6,11-O-(2-methylene-1,3-propanediyl)-, 9-[O-
 (methoxymethyl)oxime], 2'-acetate, (9E)-(9CI) (CA INDEX NAME)

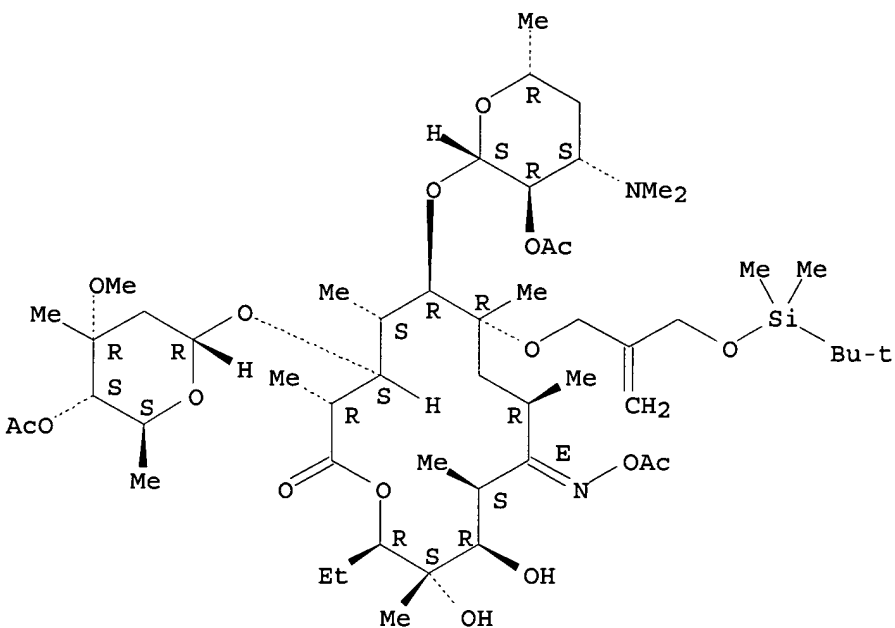


RN 625390-08-1 CAPLUS

CN Erythromycin, 6-O-[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-2-propenyl]-, 9-(O-acetyloxime), 2',4''-diacetate, (9E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.

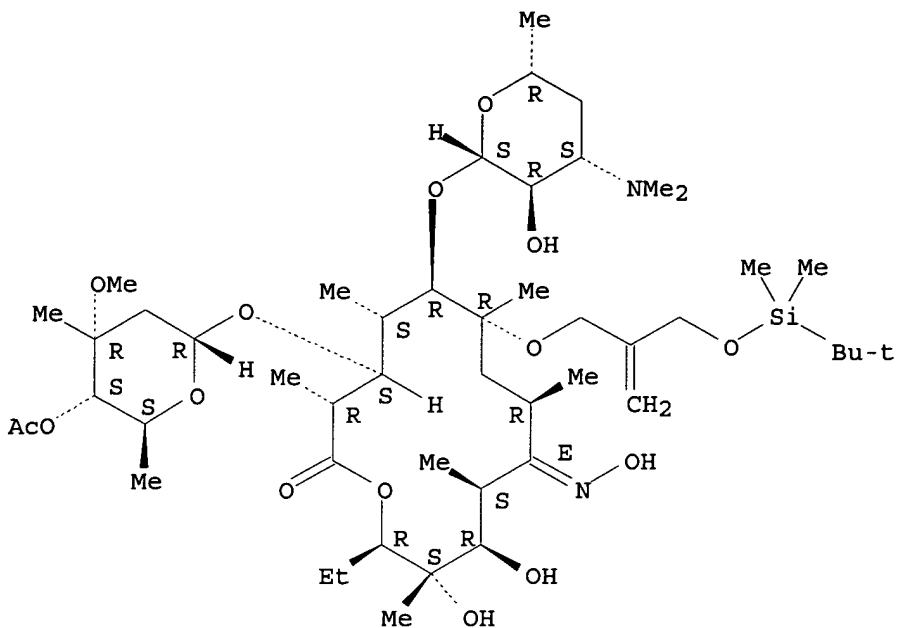


RN 625390-12-7 CAPLUS

CN Erythromycin, 6-O-[2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-2-propenyl]-, 9-oxime, 4''-acetate, (9E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

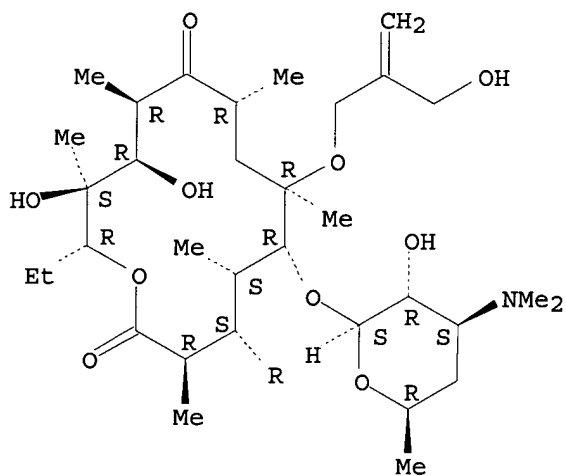
Double bond geometry as shown.



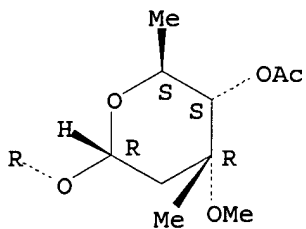
RN 625390-14-9 CAPLUS
 CN Erythromycin, 6-O-[2-(hydroxymethyl)-2-propenyl]-, 4''-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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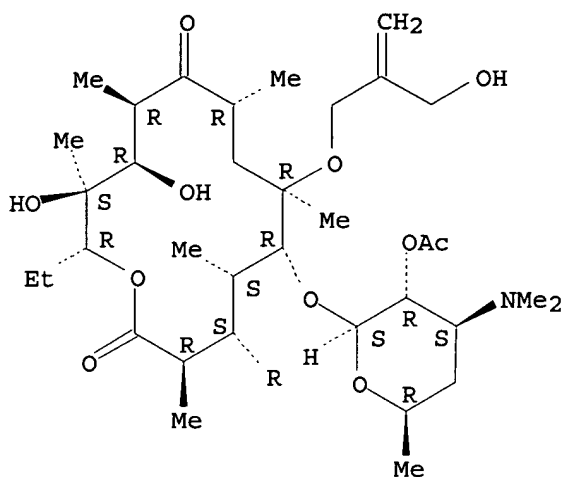
PAGE 2-A



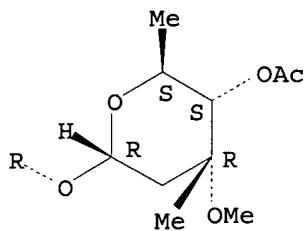
RN 625390-16-1 CAPLUS
 CN Erythromycin, 6-O-[2-(hydroxymethyl)-2-propenyl]-, 2',4''-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



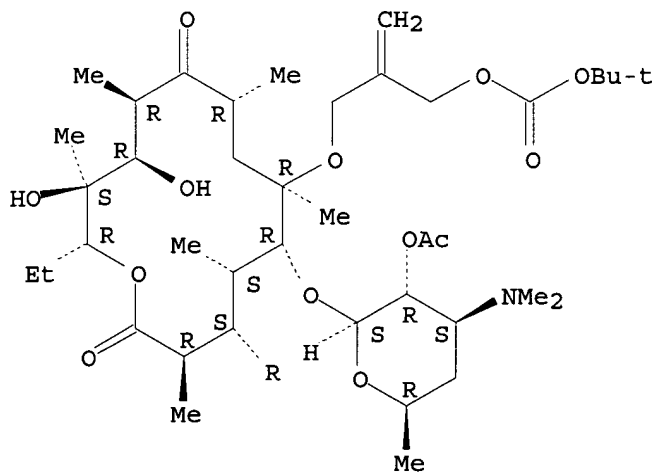
PAGE 2-A

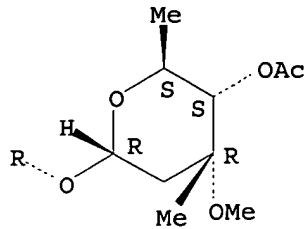


RN 625390-18-3 CAPLUS
CN Erythromycin, 6-O-[2-[[[(1,1-dimethylethoxy)carbonyl]oxy]methyl]-2-propenyl]-, 2',4''-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

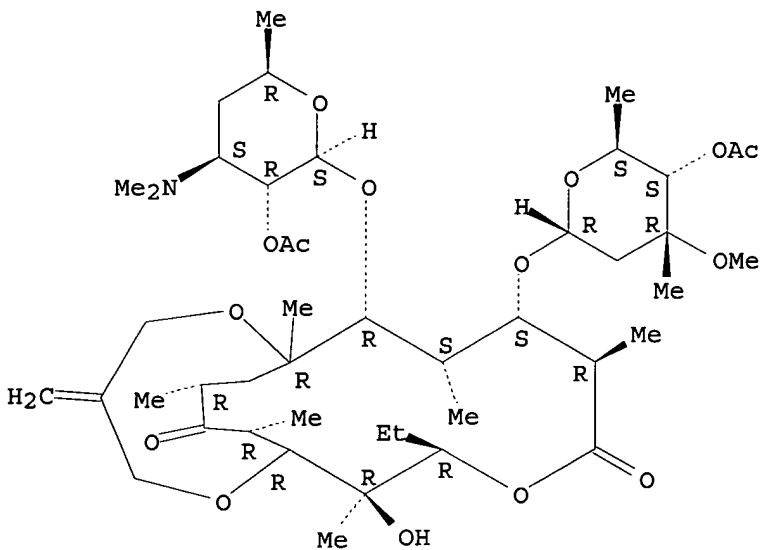
PAGE 1-A



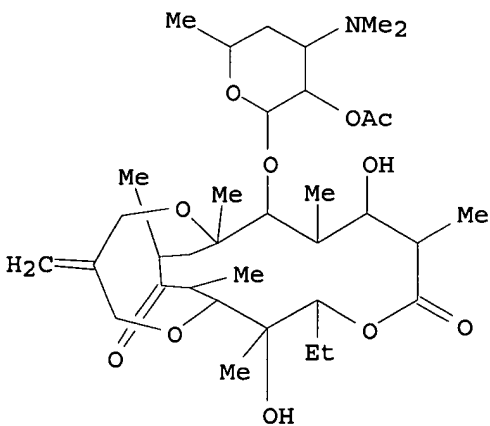


RN 625390-20-7 CAPLUS
 CN Erythromycin, 6,11-O-(2-methylene-1,3-propanediyl)-, 2',4''-diacetate (9CI) (CA INDEX NAME)

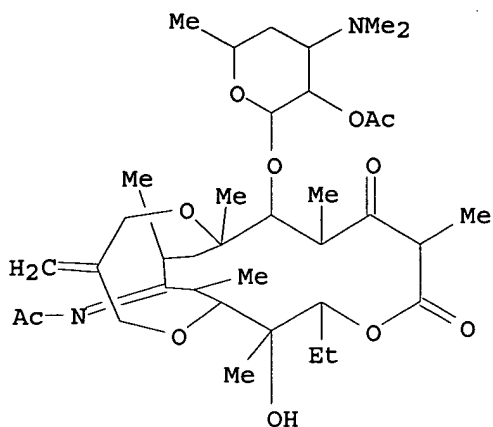
Absolute stereochemistry.



RN 625390-28-5 CAPLUS
 CN Erythromycin, 3-O-de(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)-6,11-O-(2-methylene-1,3-propanediyl)-, 2'-acetate (9CI) (CA INDEX NAME)

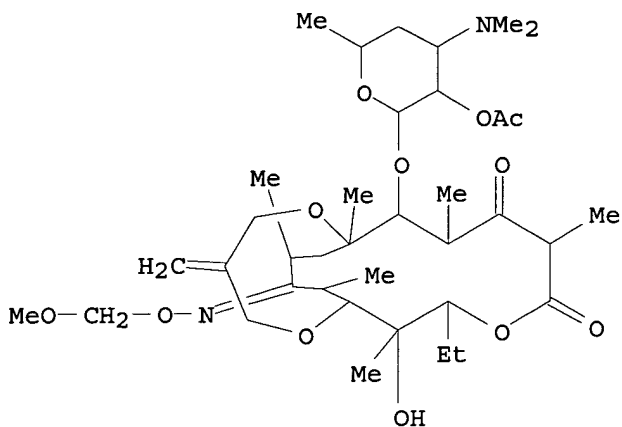


RN 628698-52-2 CAPLUS
 CN Erythromycin, 9-(acetylrimino)-3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)oxy]-9-deoxo-6,11-O-(2-methylene-1,3-propanediyl)-3-oxo-, 2'-acetate, (9E)- (9CI) (CA INDEX NAME)



RN 628698-69-1 CAPLUS

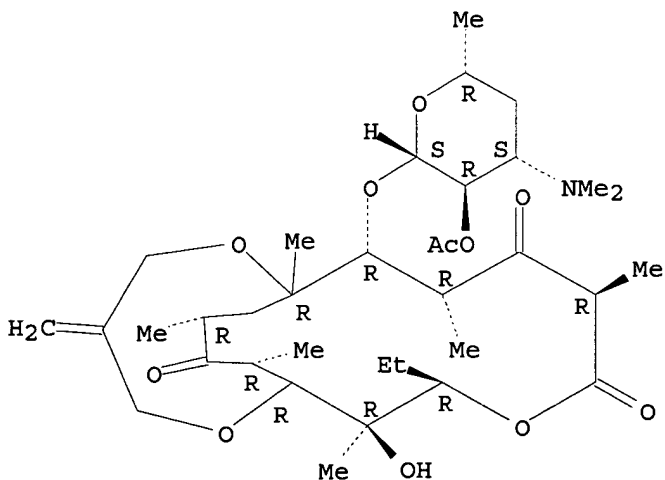
CN Erythromycin, 3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl-α-L-ribo-hexopyranosyl)oxy]-6,11-O-(2-methylene-1,3-propanediyl)-3-oxo-, 9-[O-(methoxymethyl)oxime], 2'-acetate, (9E)-(9CI) (CA INDEX NAME)



RN 628702-86-3 CAPLUS

CN Erythromycin, 3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl-α-L-ribo-hexopyranosyl)oxy]-6,11-O-(2-methylene-1,3-propanediyl)-3-oxo-, 2'-acetate (9CI) (CA INDEX NAME)

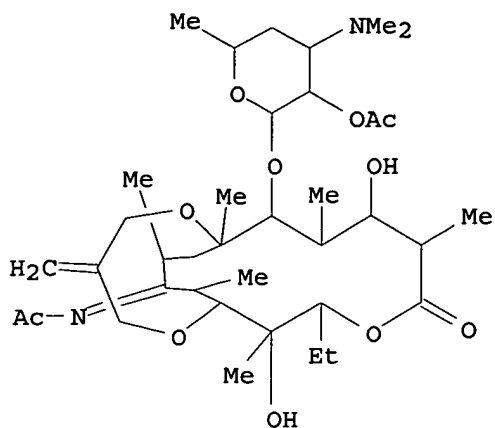
Absolute stereochemistry.



RN 628703-03-7 CAPLUS

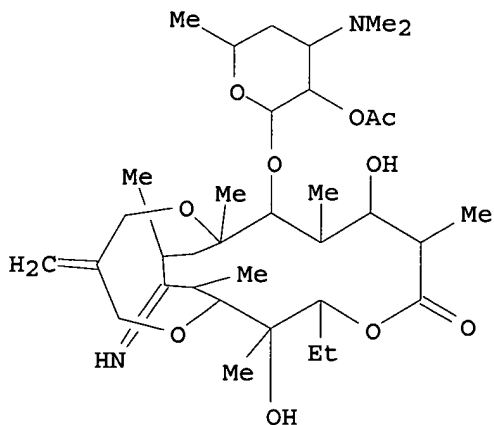
CN Erythromycin, 9-(acetylrimino)-3-O-de(2,6-dideoxy-3-C-methyl-3-O-methyl-α-L-ribo-hexopyranosyl)-9-deoxo-6,11-O-(2-methylene-1,3-propanediyl)-

, 2'-acetate, (9E)- (9CI) (CA INDEX NAME)



RN 808765-29-9 CAPLUS

CN Erythromycin, 3-O-de(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribohexopyranosyl)-9-deoxo-9-imino-6,11-O-(2-methylene-1,3-propanediyl)-, 2'-acetate (9CI) (CA INDEX NAME)

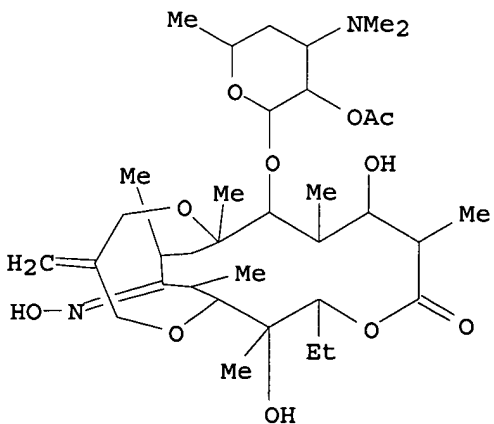


IT 625390-04-7P 808765-30-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of 6,11-O-bridged bicyclic ketolides via
a palladium-catalyzed bis-allylation or stepwise 6-O,11-O-dialkylation)

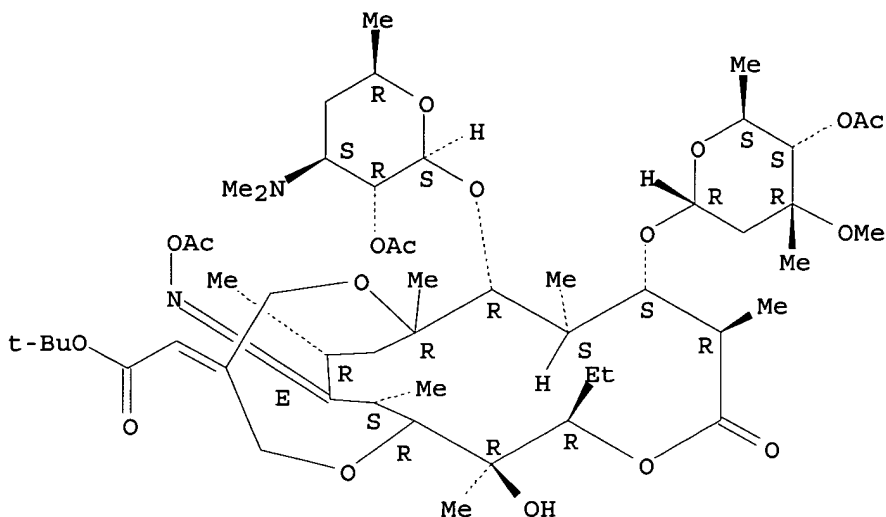
RN 625390-04-7 CAPLUS

CN Erythromycin, 3-O-de(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribohexopyranosyl)-6,10-O-(2-methylene-1,3-propanediyl)-, 9-oxime, 2'-acetate, (9E)- (9CI) (CA INDEX NAME)



RN 808765-30-2 CAPLUS
CN Erythromycin, 6,11-O-[2-[2-(1,1-dimethylethoxy)-2-oxoethylidene]-1,3-propanediyl]-, 9-O-acetyloxime, 2',4''-diacetate, (9E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as described by E or Z.



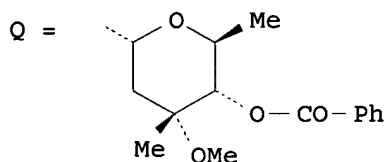
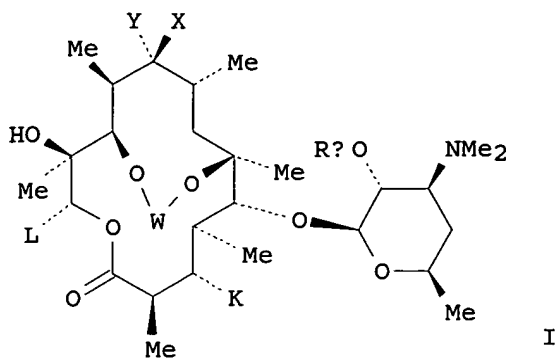
RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:101000 CAPLUS
DN 140:146397
TI Preparation of 6,11-4-carbon bridged macrolide ketolides
erythromycin analogs as antibacterial agents
IN Or, Yat Sun; Wang, Guogiang; Niu, Deqiang; Phan, Ly Tam
PA Enanta Pharmaceuticals, Inc., USA
SO PCT Int. Appl., 80 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 10

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004011009	A1	20040205	WO 2003-US20860	20030701
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US 6753318	B1	20040622	US 2002-205357	20020725
	US 2005009763	A1	20050113	US 2004-841249	20040507
PRAI	US 2002-205357	A	20020725		
OS	CASREACT 140:146397; MARPAT 140:146397				
GI					



AB Novel 6,11-4-carbon bridged erythromycin ketolides I, wherein W is substituted alkylidene, X and Y are independently H, deuterium, OH, alkoxy, amine; XY are together CO, imine, oxime, amide; L is hydroxy-alkyl, alkyl, alkenyl, alkynyl; Z is H, Me, halogen; Rx is hydroxy protecting group; K is H, alkoxy, ester, carbamate, sulfoxide, sugar residue; pharmaceutically-acceptable comps. comprising a therapeutically effective amount of a compound of the invention in combination with a pharmaceutically-acceptable carrier are described. Also described are methods for treating bacterial infections by administering to an animal a pharmaceutical composition containing a therapeutically effective amount of a compound of the invention and processes for the preparation of such compds. Thus, I (W is -CH₂CH=CHCH₂-, X and Y taken together with the carbon atom they are attached to form C=N-OH, L is Et, Rx = H; K is sugar residue Q) was prepared and tested in vitro as antibacterial agent. The compds. of the invention generally demonstrated an MIC in the range from about 64 µg/mL to about 0.03 µg/mL.

IT 652150-09-9P 652157-55-6P 652157-59-0P
 652157-60-3P 652157-61-4P 652157-62-5P
 652157-63-6P 652157-64-7P 652157-65-8P
 652157-66-9P 652157-67-0P 652157-68-1P
 652157-69-2P 652157-70-5P 652157-71-6P
 652157-72-7P 652157-73-8P

RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

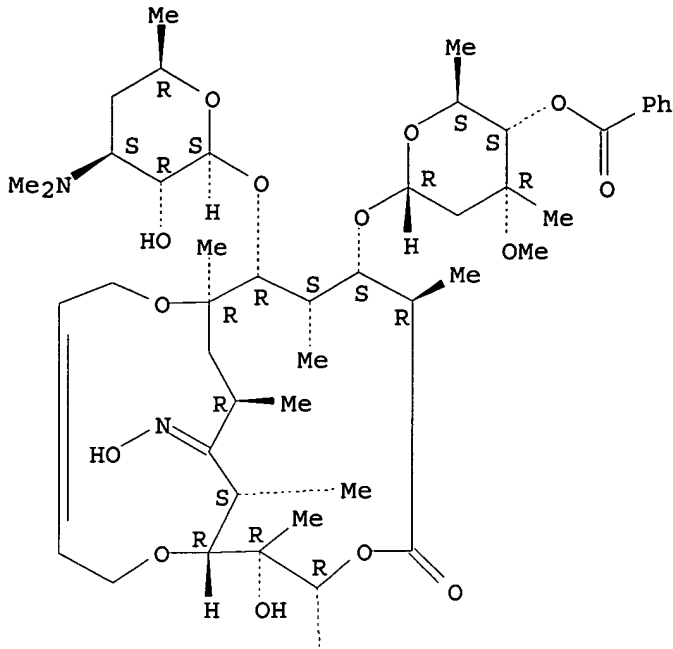
(preparation of carbon bridged macrolide ketolides erythromycin analogs as antibacterial agents)

RN 652150-09-9 CAPLUS

CN Erythromycin, 6,11-O-2-butene-1,4-diyl-, 9-oxime, 4''-benzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

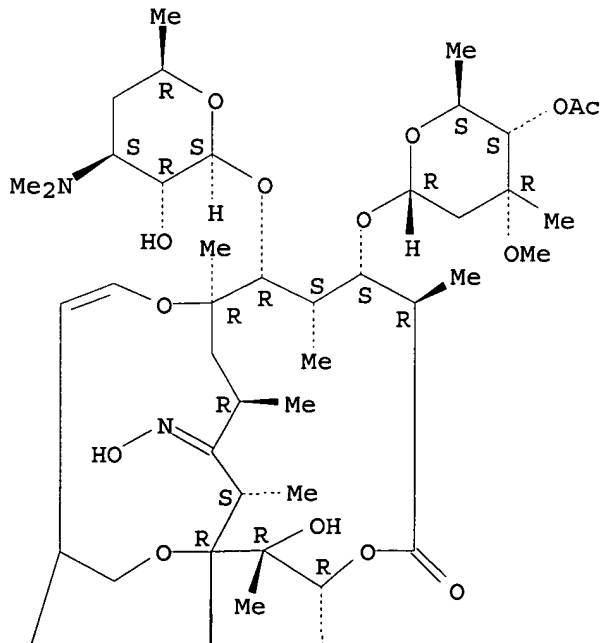
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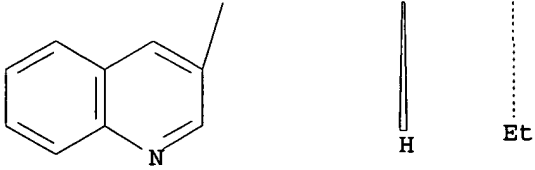


Et

RN 652157-55-6 CAPLUS
 CN Erythromycin, 6,11-O-[3-(3-quinolinyl)-1-butene-1,4-diyl]-, 9-oxime,
 4''-acetate (9CI) (CA INDEX NAME)

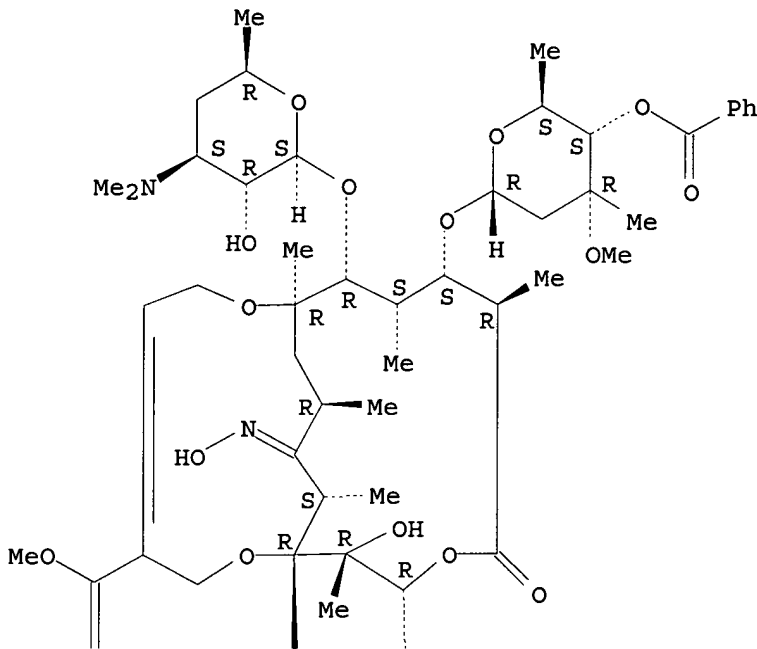
Absolute stereochemistry.
 Double bond geometry unknown.





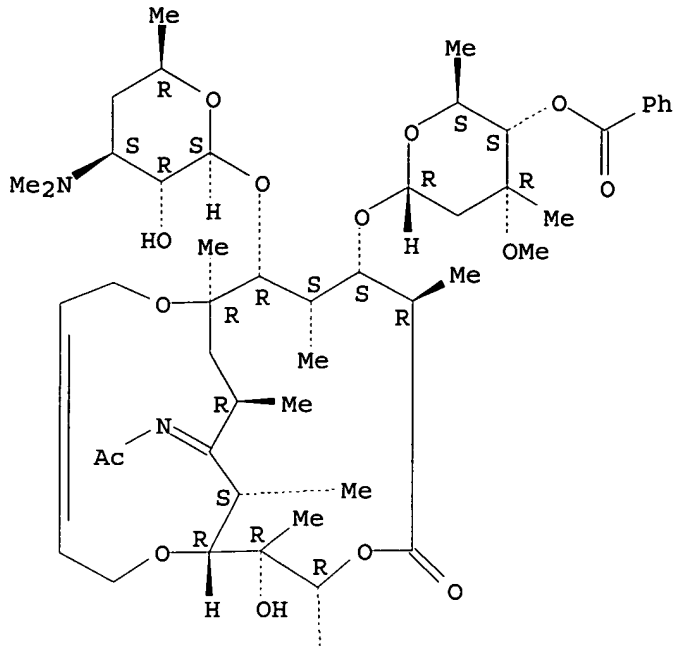
RN 652157-59-0 CAPLUS
 CN Erythromycin, 11,6-O-[2-(methoxycarbonyl)-2-butene-1,4-diyl]-, 9-oxime,
 4''-benzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



RN 652157-60-3 CAPLUS
 CN Erythromycin, 9-(acetylmino)-6,11-O-2-butene-1,4-diyl-9-deoxo-,
 4''-benzoate (9CI) (CA INDEX NAME)

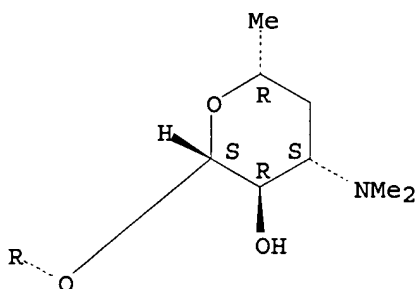
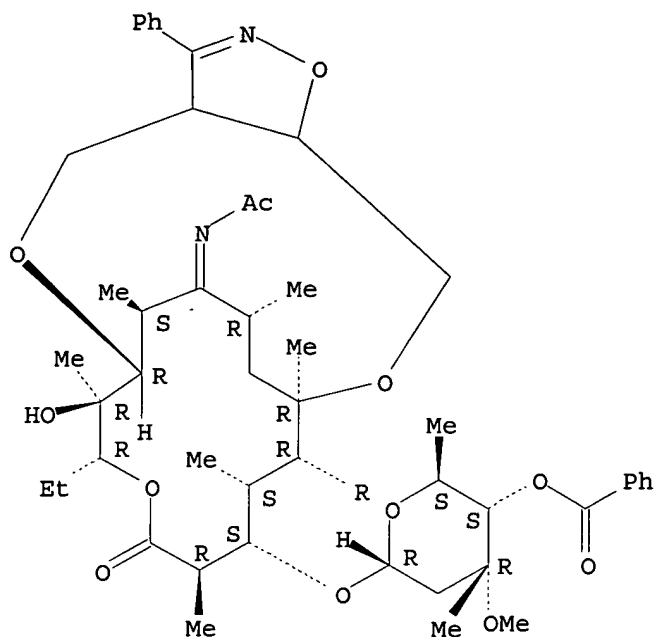
Absolute stereochemistry.
 Double bond geometry unknown.



Et

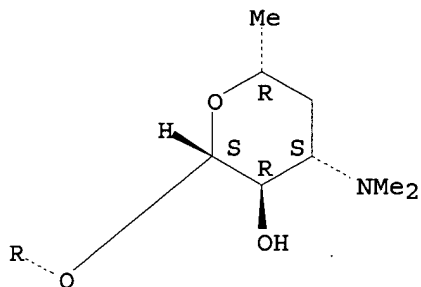
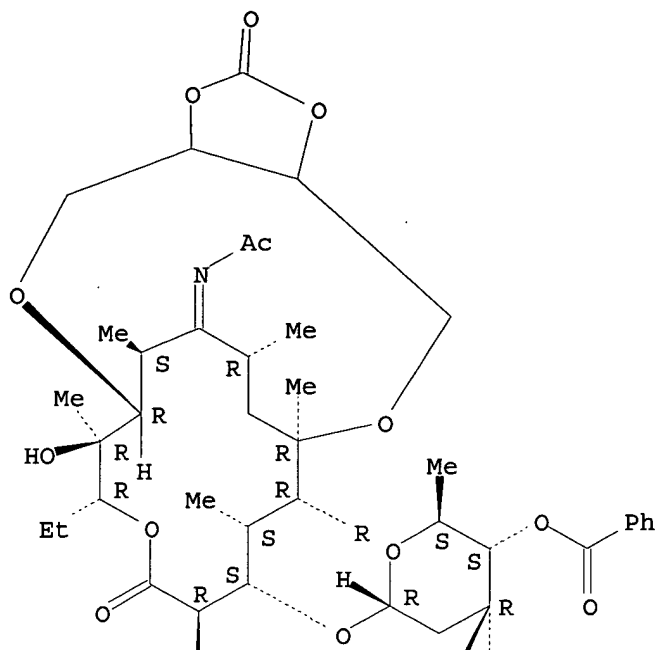
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 CN Acetamide, N-[(6R,7R,8R,11R,12S,13S,14R,15R,19R,21S)-12-[(4-O-benzoyl-2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)oxy]-8-ethyl-3a,4,7,8,10,11,12,13,14,15,17,17a-dodecahydro-7-hydroxy-7,11,13,15,19,21-hexamethyl-10-oxo-3-phenyl-14-[[3,4,6-trideoxy-3-(dimethylamino)- β -D-xylo-hexopyranosyl]oxy]-6,15-butano-6H-[1,5,10]trioxacyclohexadecino[7,8-d]isoxazol-20-ylidene]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



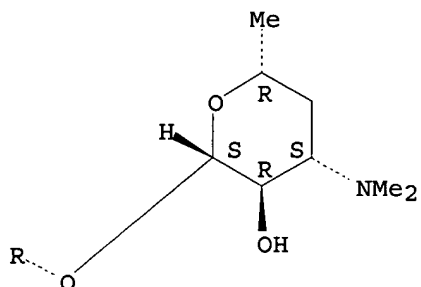
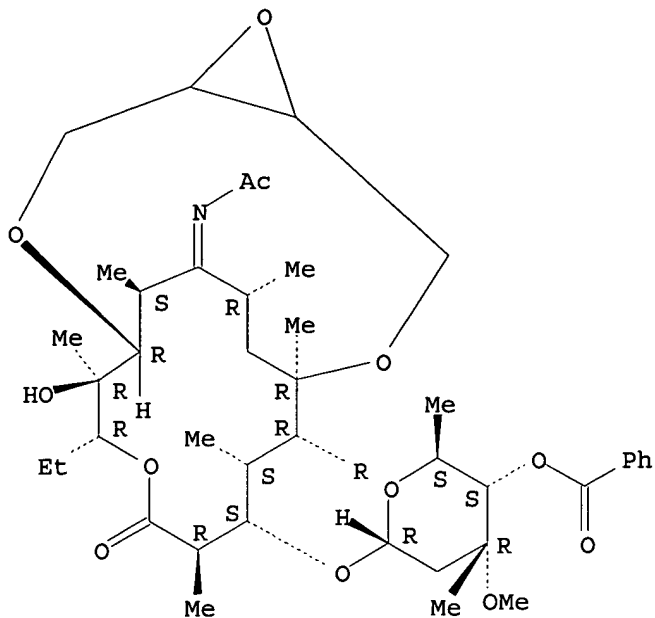
RN 652157-62-5 CAPLUS
 CN Acetamide, N-[(6R,7R,8R,11R,12S,13S,14R,15R,19R,21S)-12-[(4-O-benzoyl-2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)oxy]-8-ethyl-3a,4,7,8,10,11,12,13,14,15,17,17a-dodecahydro-7-hydroxy-7,11,13,15,19,21-hexamethyl-2,10-dioxo-14-[[3,4,6-trideoxy-3-(dimethylamino)- β -D-xylo-hexopyranosyl]oxy]-6,15-butano-6H-6,15-butano-6H-1,3-dioxolo[4,5-g][1,5,10]trioxacyclohexadecin-20-ylidene]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



RN 652157-63-6 CAPLUS
 CN Acetamide, N-[(1R,2R,3R,6R,7S,8S,9R,10R,18S,20R)-7-[(4-O-benzoyl-2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)oxy]-3-ethyl-2-hydroxy-2,6,8,10,18,20-hexamethyl-5-oxo-9-[[3,4,6-trideoxy-3-(dimethylamino)- β -D-xylo-hexopyranosyl]oxy]-4,11,14,17-tetraoxatricyclo[8.7.4.0^{13,15}]heneicosan-19-ylidene]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

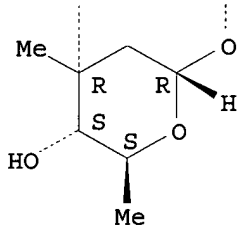
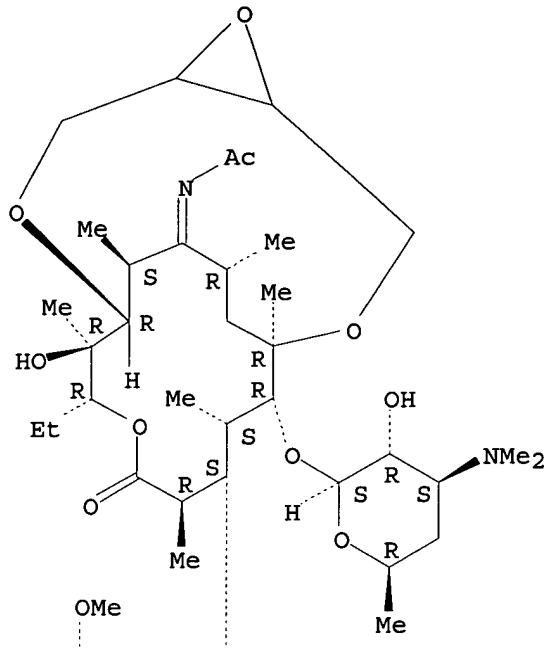


RN 652157-64-7 CAPLUS

CN Acetamide, N-[(1R,2R,3R,6R,7S,8S,9R,10R,18S,20R)-7-[(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)oxy]-3-ethyl-2-hydroxy-2,6,8,10,18,20-hexamethyl-5-oxo-9-[[3,4,6-trideoxy-3-(dimethylamino)- β -D-xylo-hexopyranosyl]oxy]-4,11,14,17-tetraoxatricyclo[8.7.4.0^{13,15}]heneicosan-19-ylidene]- (9CI) (CA INDEX NAME)

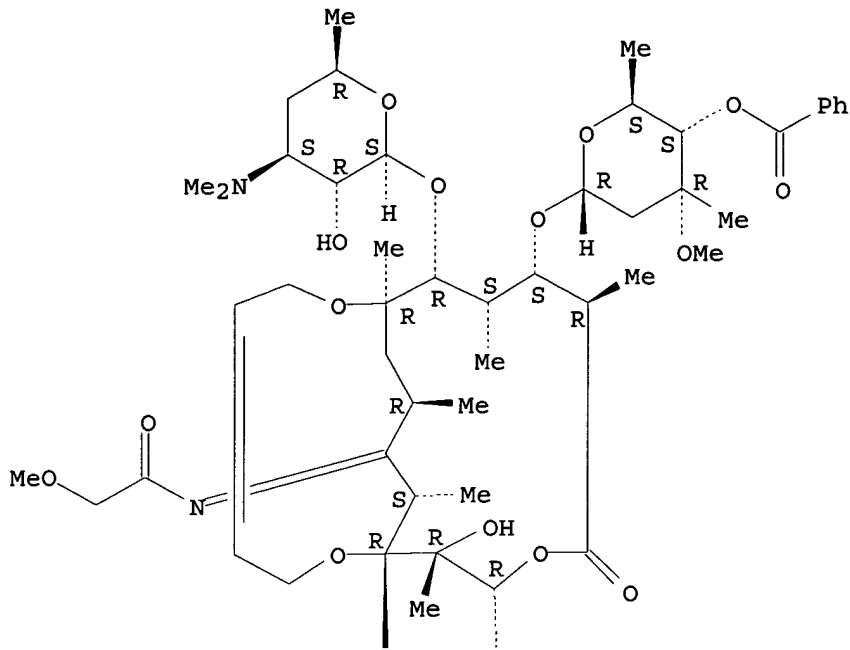
Absolute stereochemistry.

Double bond geometry unknown.



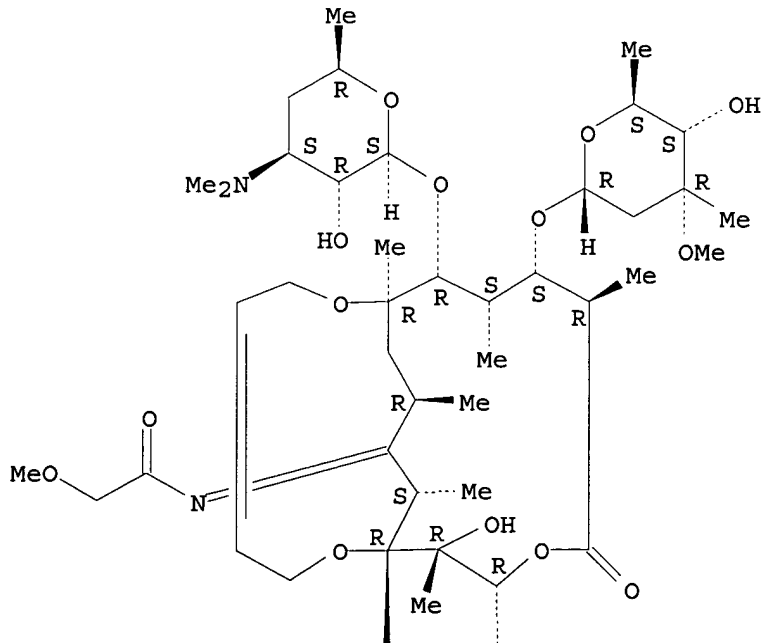
RN 652157-65-8 CAPLUS
 CN Erythromycin, 6,11-O-2-butene-1,4-diyl-9-deoxy-9-[(methoxyacetyl)imino]-,
 4'''-benzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



RN 652157-66-9 CAPLUS
 CN Erythromycin, 6,11-O-2-butene-1,4-diyl-9-deoxy-9-[(methoxyacetyl)imino]-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



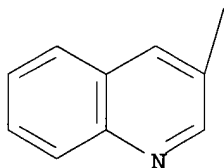
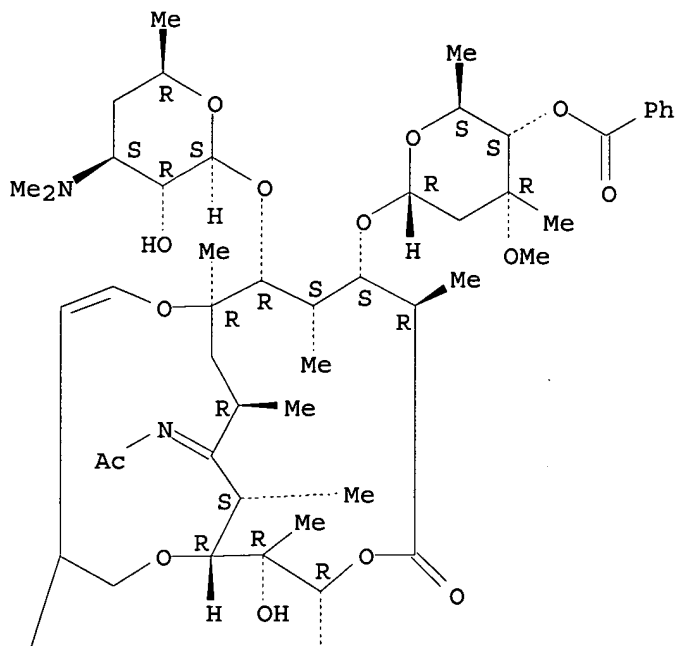


RN 652157-67-0 CAPLUS

CN Erythromycin, 9-(acetylimino)-9-deoxo-6,11-O-[3-(3-quinolinyl)-1-butene-1,4-diyl]-, 4''-benzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

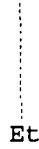
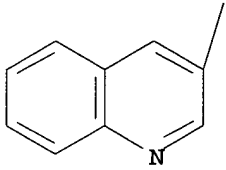
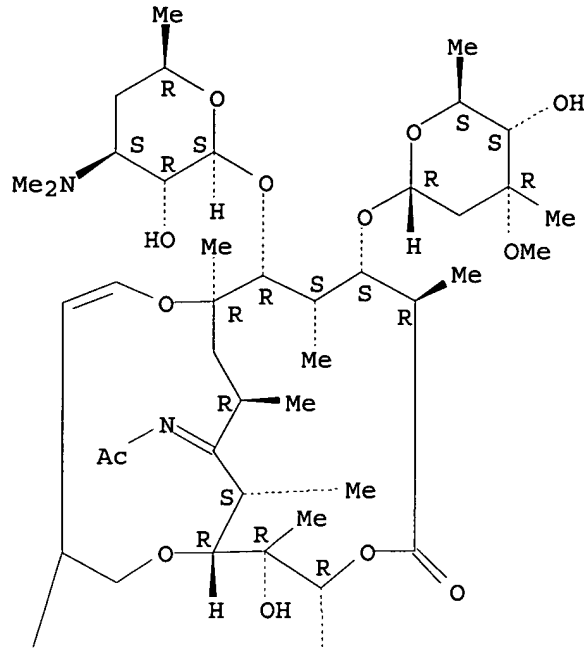


RN 652157-68-1 CAPLUS

CN Erythromycin, 9-(acetylimino)-9-deoxo-6,11-O-[3-(3-quinolinyl)-1-butene-1,4-diyl]- (9CI) (CA INDEX NAME)

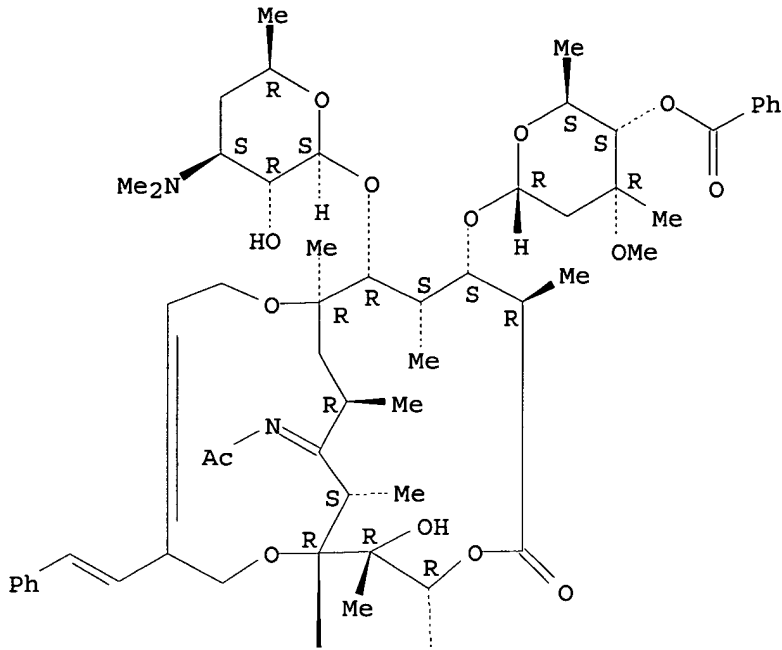
Absolute stereochemistry.

Double bond geometry unknown.



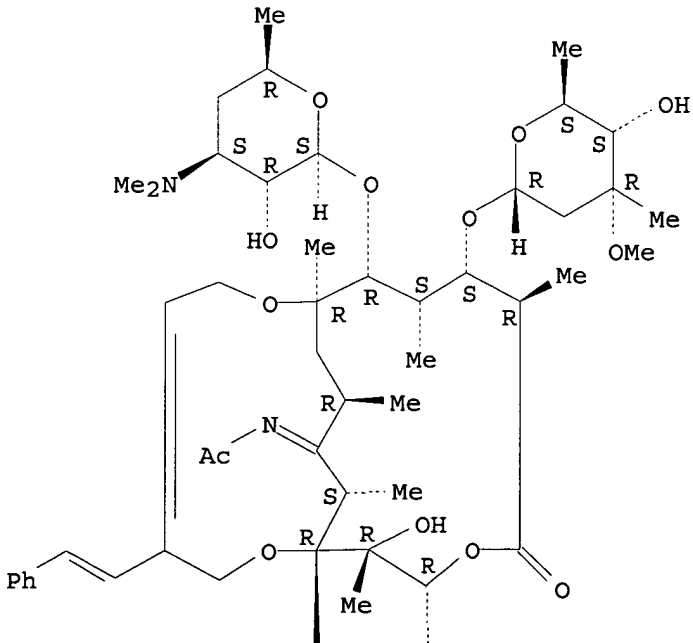
RN 652157-69-2 CAPLUS
 CN Erythromycin, 9-(acetylimino)-11,6-O-[2-(2-phenylethenyl)-2-butene-1,4-diy]l]-9-deoxo-, 4''-benzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



RN 652157-70-5 CAPLUS
 CN Erythromycin, 9-(acetylmino)-11,6-O-[2-(2-phenylethenyl)-2-butene-1,4-diy]l-9-deoxo- (9CI) (CA INDEX NAME)

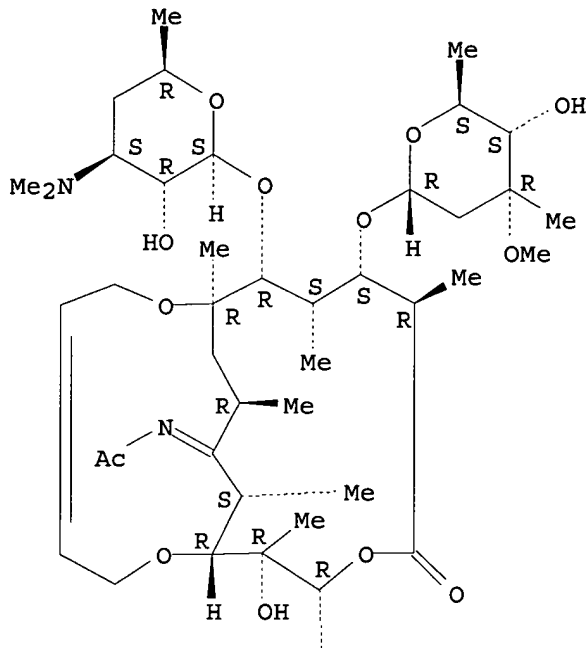
Absolute stereochemistry.
 Double bond geometry unknown.





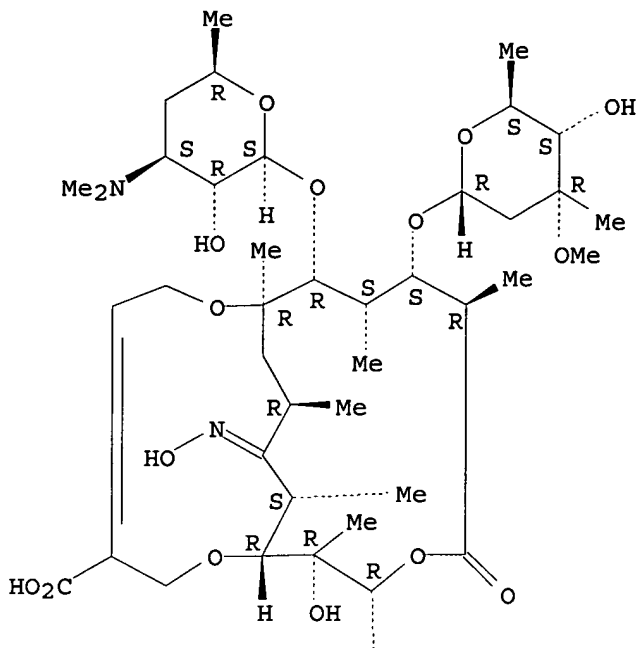
RN 652157-71-6 CAPLUS
 CN Erythromycin, 9-(acetylimino)-9-deoxo-6,11-O-2-butene-1,4-diyl- (9CI) (CA
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Absolute stereochemistry.
 Double bond geometry unknown.



RN 652157-72-7 CAPLUS
 CN Erythromycin, 11,6-O-(2-carboxy-2-butene-1,4-diyl)-, 9-oxime (9CI) (CA
 INDEX NAME)

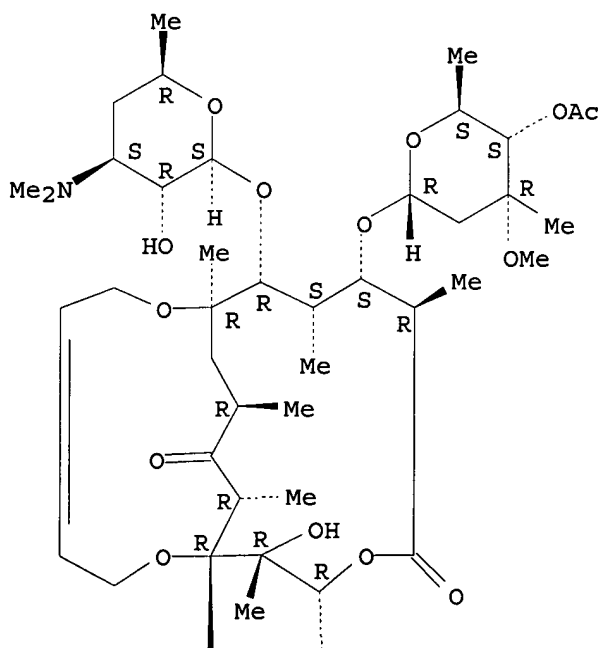
Absolute stereochemistry.
 Double bond geometry unknown.



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RN 652157-73-8 CAPLUS
 CN Erythromycin, 6,11-O-2-butene-1,4-diyl-, 4''-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.





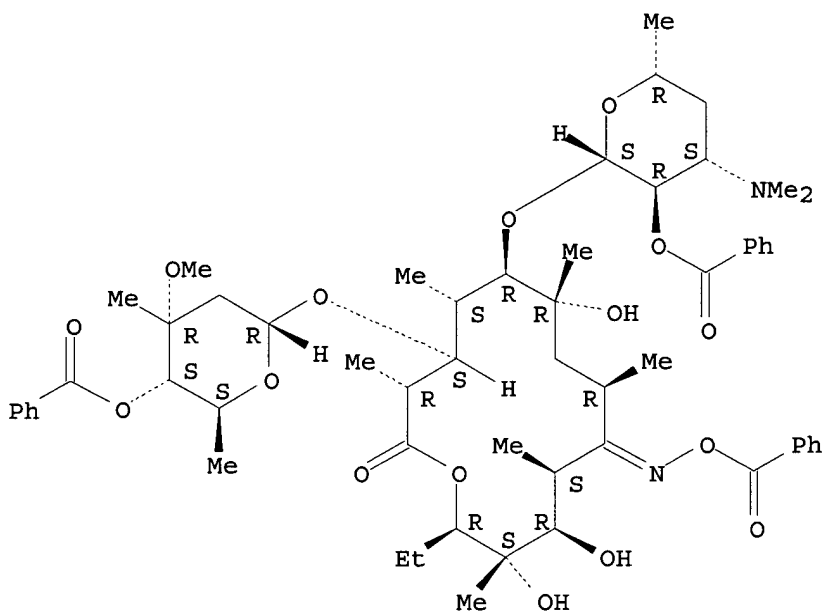
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 652150-17-9P 652150-18-0P 652150-19-1P
 652150-20-4P 652157-56-7P 652157-57-8P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of carbon bridged macrolide ketolides erythromycin analogs as antibacterial agents)

RN 314050-31-2 CAPLUS

CN Erythromycin, 9-(O-benzoyloxime), 2',4''-dibenzoate (9CI) (CA INDEX NAME)

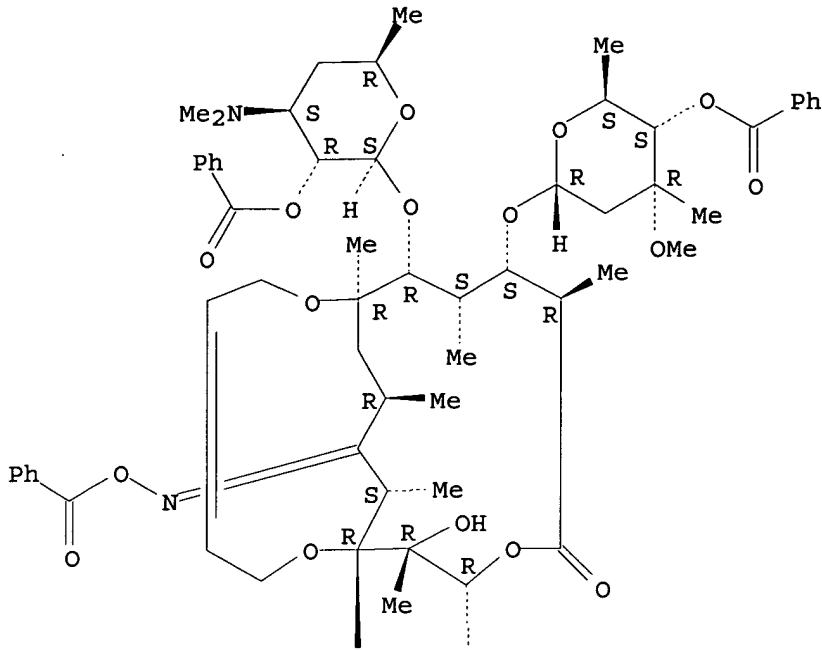
Absolute stereochemistry.
 Double bond geometry unknown.



RN 652150-08-8 CAPLUS

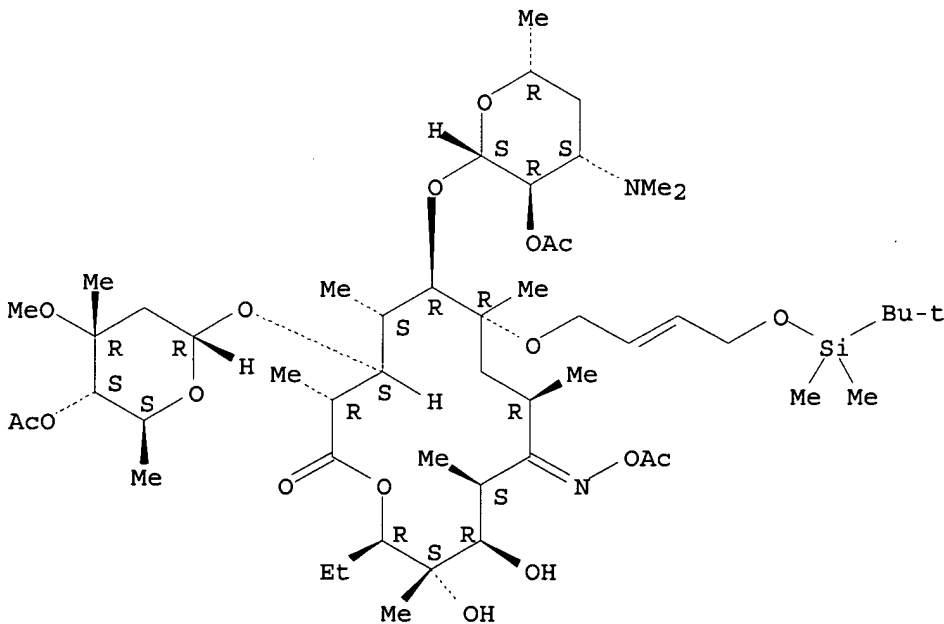
CN Erythromycin, 6,11-O-2-butene-1,4-diyl-, 9-(O-benzoyloxime), 2',4''-dibenzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



RN 652150-16-8 CAPLUS
 CN Erythromycin, 6-O-[4-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-butenyl]-, 9-(O-acetyloxime), 2',4''-diacetate (9CI) (CA INDEX NAME)

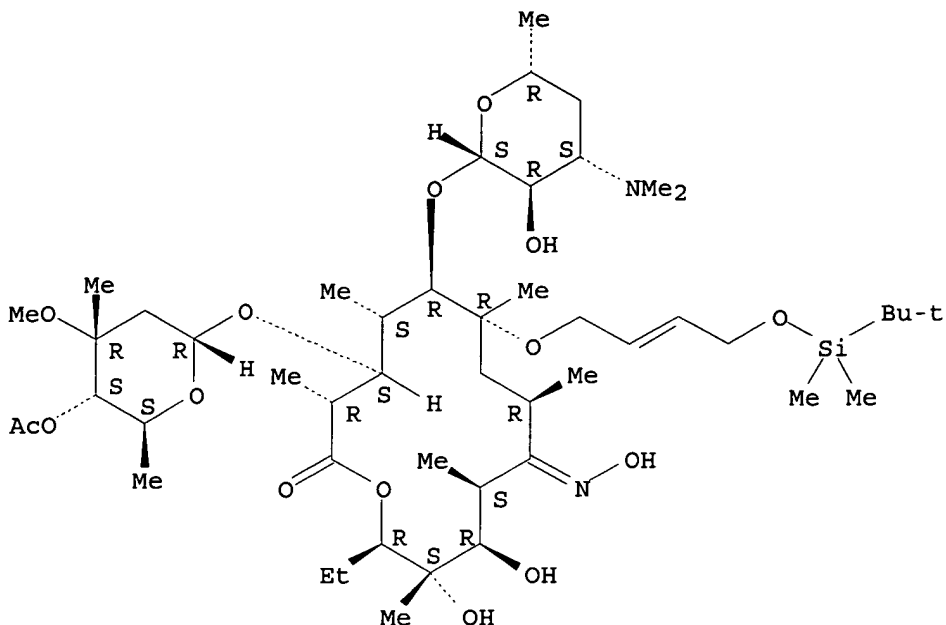
Absolute stereochemistry.
 Double bond geometry unknown.



RN 652150-17-9 CAPLUS
 CN Erythromycin, 6-O-[4-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-butenyl]-,

9-oxime, 4''-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

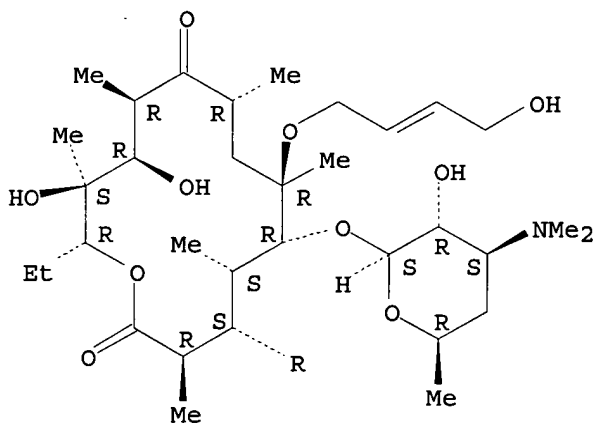


RN 652150-18-0 CAPLUS

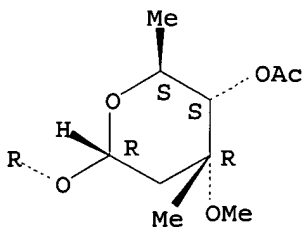
CN Erythromycin, 6-O-(4-hydroxy-2-butenyl)-, 4''-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



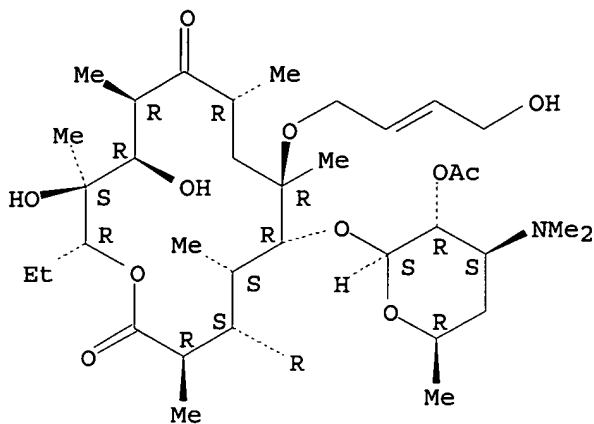
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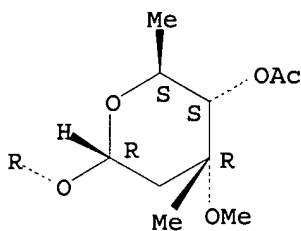
RN 652150-19-1 CAPLUS
CN Erythromycin, 6-O-(4-hydroxy-2-butenyl)-, 2',4''-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



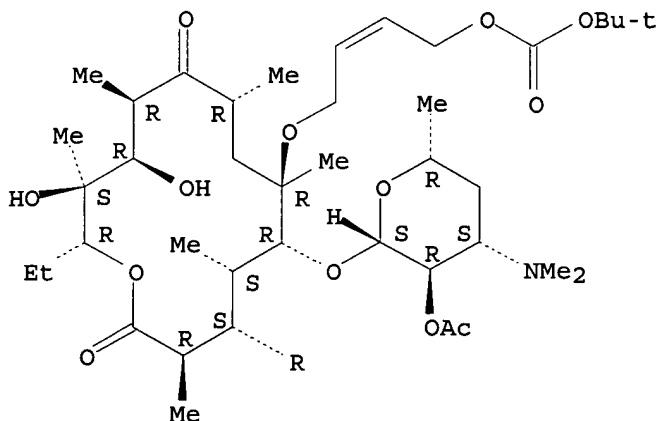
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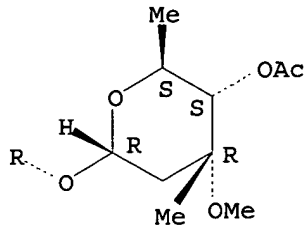


RN 652150-20-4 CAPLUS
CN Erythromycin, 6-O-[4-[[[(1,1-dimethylethoxy)carbonyl]oxy]-2-butenyl]]-, 2',4''-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

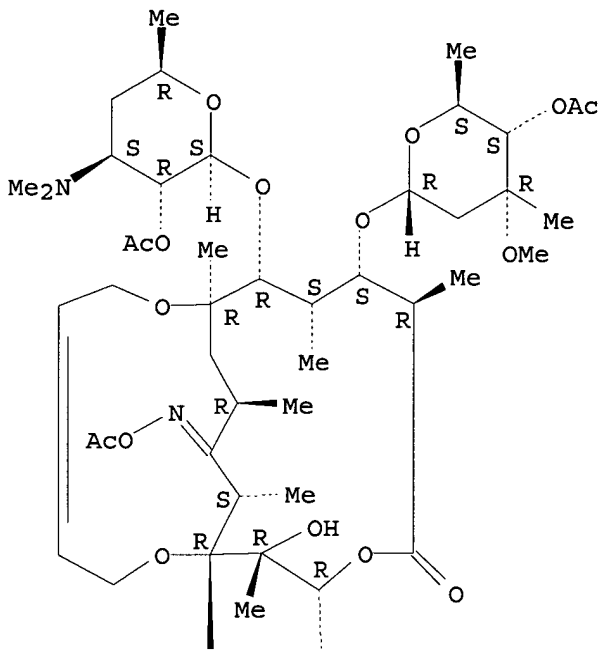
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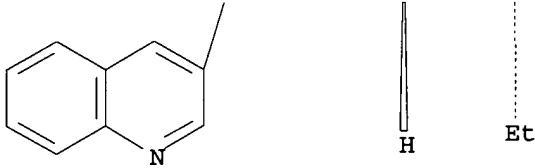
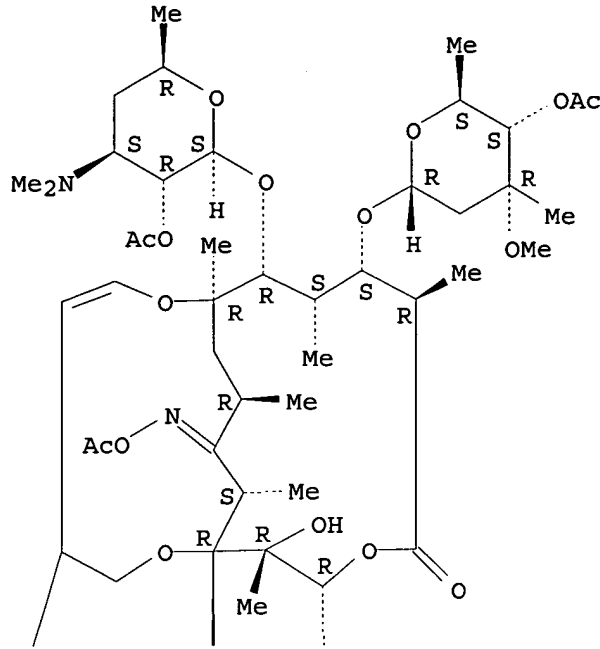
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 CN Erythromycin, 6,11-O-2-butene-1,4-diyl-, 9-(O-acetyloxime),
 2',4''-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



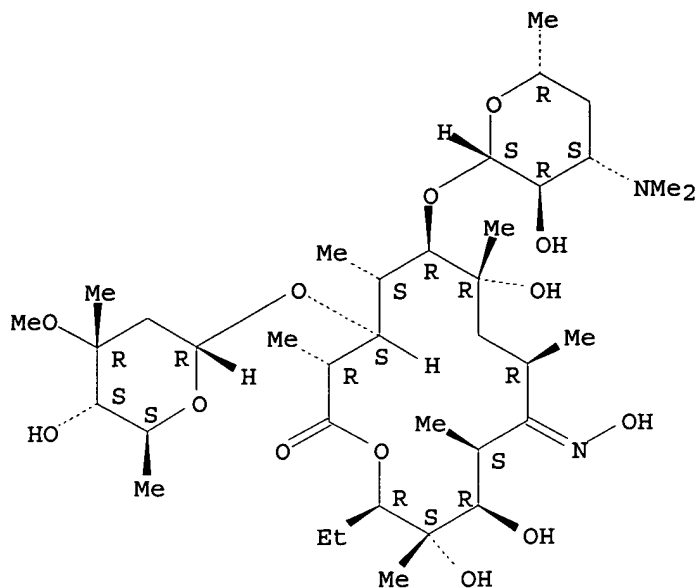
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 CN Erythromycin, 6,11-O-[3-(3-quinolinyl)-1-butene-1,4-diyl]-,
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Absolute stereochemistry.
 Double bond geometry unknown.



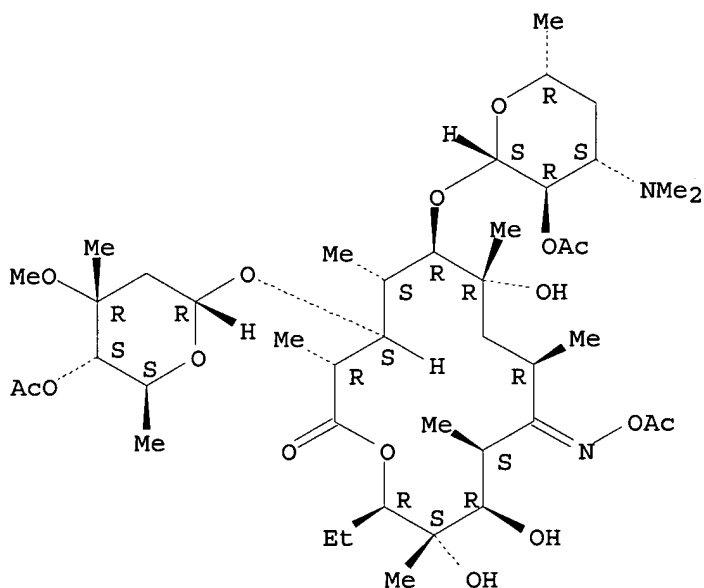
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 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of carbon bridged macrolide ketolides erythromycin
 analogs as antibacterial agents)
 RN 13127-18-9 CAPLUS
 CN Erythromycin, 9-oxime (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



RN 314050-27-6 CAPLUS
 CN Erythromycin, 9-(O-acetyloxime), 2',4''-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

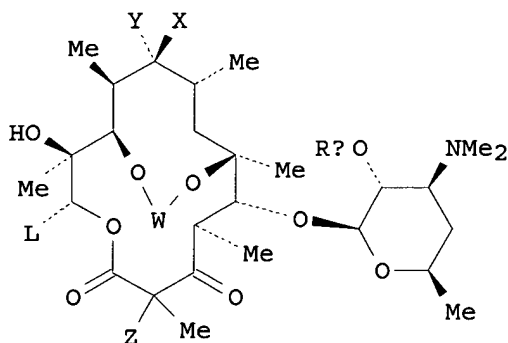


RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:100793 CAPLUS
 DN 140:146396
 TI Preparation of 6,11-4-carbon bridged macrolide ketolides
 erythromycin analogs as antibacterial agents
 IN Or, Yat Sun; Wang, Guoqiang; Niu, Deqiang; Phan, Ly Tam
 PA Enanra Pharmaceuticals, Inc., USA
 SO U.S. Pat. Appl. Publ., 41 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 10

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 2004023895	A1	20040205	US 2002-205018	20020725
	US 6841664	B2	20050111		
	WO 2004011477	A2	20040205	WO 2003-US20864	20030601
	WO 2004011477	A3	20040318		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2005009761	A1	20050113	US 2004-763377	20040123
	US 2004266998	A1	20041230	US 2004-841206	20040507
PRAI	US 2002-144396	B2	20020513		
	US 2002-144558	B2	20020513		
	US 2002-205018	A	20020725		
	US 2002-205357	A2	20020725		
	US 2003-429485	A2	20030505		
	US 2003-436622	A2	20030513		
	US 2003-464188	A2	20030618		
OS	MARPAT 140:146396				
GI					



I

AB Novel 6,11-4-carbon bridged ketolides I, wherein W is substituted alkylidene, X and Y are independently H, deuterium, OH, alkoxy, amine; XY are together CO, imine, oxime, amide; L is hydroxy-alkyl, alkyl, alkenyl, alkynyl; Z is H, Me, halogen; Rx is hydroxy protecting group, pharmaceutically-acceptable compns. comprising a therapeutically effective amount of a compound of the invention in combination with a pharmaceutically-acceptable carrier are described. Also described are a method for treating bacterial infections by administering to an animal a pharmaceutical composition containing a therapeutically effective amount of a compound of the invention and processes for the preparation of such compds. Thus, I (W is -CH₂CH=CHCH₂-, X and Y taken together with the carbon atom they are attached to form C=NC(O)CH₃, L is Et, Z = Rx = H) was prepared and tested in vitro as antibacterial agent. The compds. of the invention generally demonstrated antibacterial activity in vitro with an MIC in the range from about 64 µg/mL to about 0.03 µg/mL.

IT 652150-23-7P

RL: IMF (Industrial manufacture); PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(preparation of carbon bridged macrolide ketolides erythromycin analogs as antibacterial agents)

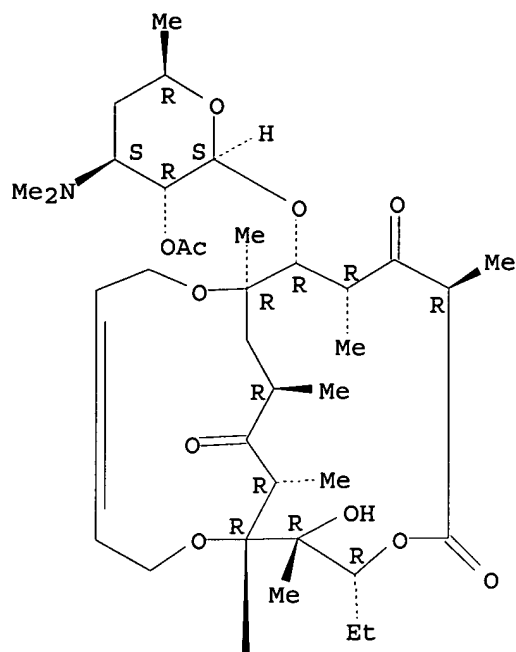
RN 652150-23-7 CAPLUS

CN Erythromycin, 6,11-0-2-butene-1,4-diyl-3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl-α-L-ribo-hexopyranosyl)oxy]-3-oxo-, 2'-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

PAGE 1-A



PAGE 2-A



IT 652150-24-8P 652150-25-9P 652150-26-0P
652150-27-1P 652150-28-2P 652150-29-3P
652150-31-7P 652150-32-8P 652150-33-9P
652150-34-0P 652150-35-1P 652150-36-2P
652150-37-3P

RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN
(Synthetic preparation); THU (Therapeutic use); BIOL (Biological study);
PREP (Preparation); USES (Uses)

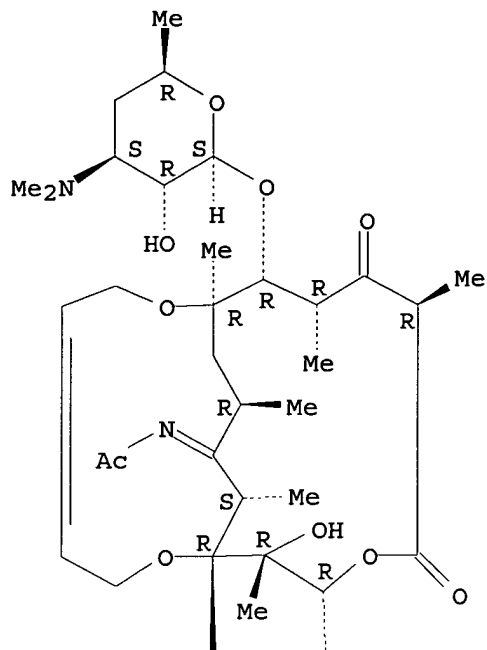
(preparation of carbon bridged macrolide ketolides erythromycin
analogs as antibacterial agents)

RN 652150-24-8 CAPLUS

CN Erythromycin, 9-(acetylrimino)-6,11-O-2-butene-1,4-diyl-3-de[(2,6-dideoxy-3-
C-methyl-3-O-methyl-α-L-ribo-hexopyranosyl)oxy]-9-deoxo-3-oxo- (9CI)
(CA INDEX NAME)

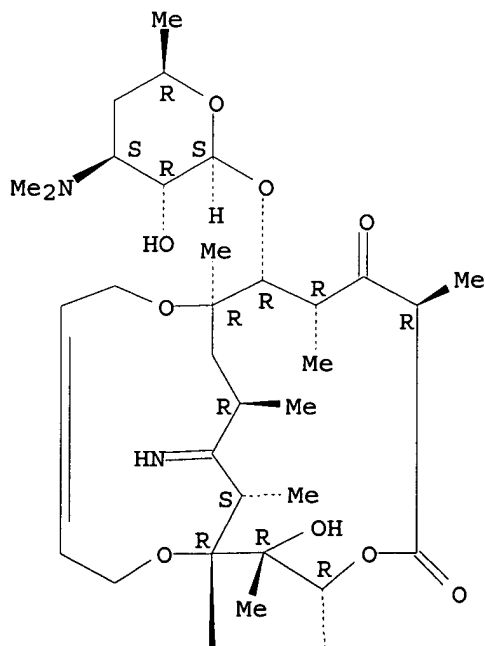
Absolute stereochemistry.

Double bond geometry unknown.



RN 652150-25-9 CAPLUS
 CN Erythromycin, 6,11-O-2-butene-1,4-diyl-3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)oxy]-9-deoxo-9-imino-3-oxo- (9CI) (CA INDEX NAME)

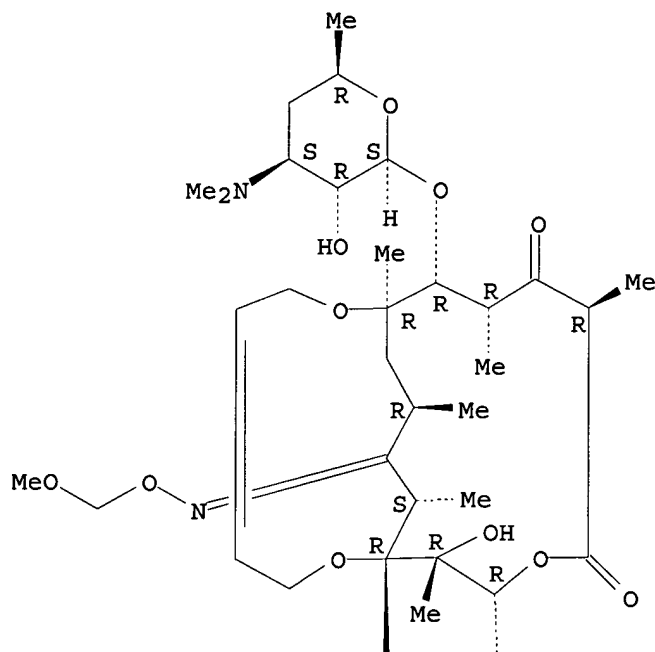
Absolute stereochemistry.
 Double bond geometry unknown.





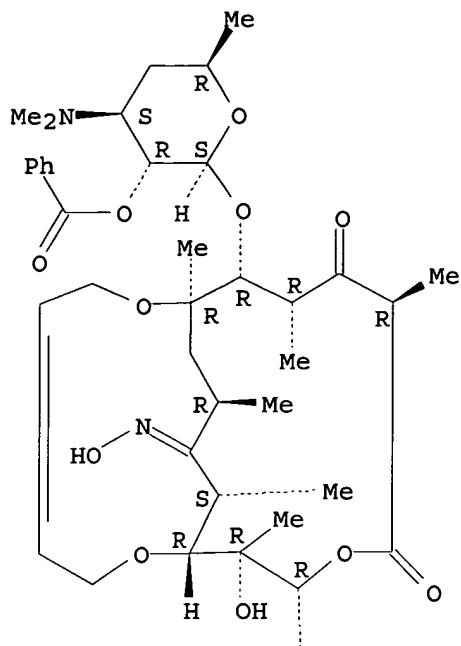
RN 652150-26-0 CAPLUS
 CN Erythromycin, 6,11-O-2-butene-1,4-diyl-3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)oxy]-3-oxo-, 9-[O-(methoxymethyl)oxime] (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



RN 652150-27-1 CAPLUS
 CN Erythromycin, 6,11-O-2-butene-1,4-diyl-3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)oxy]-3-oxo-, 9-oxime, 2'-benzoate (9CI) (CA INDEX NAME)

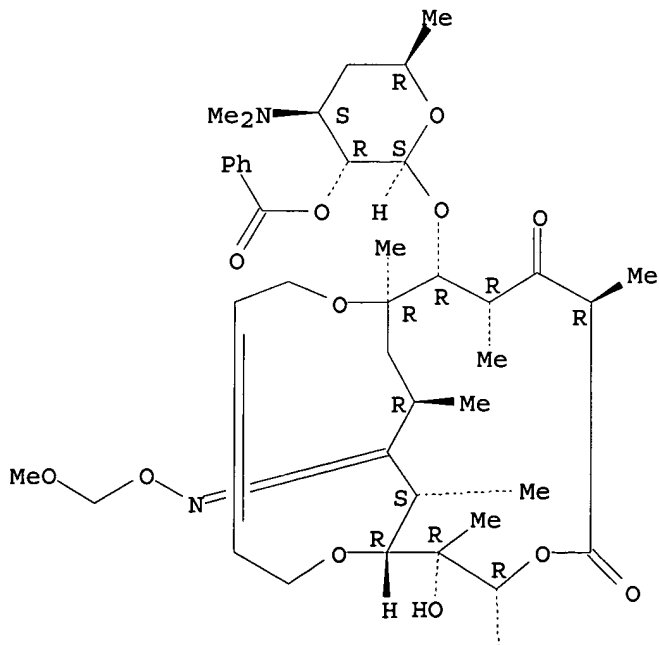
Absolute stereochemistry.
 Double bond geometry unknown.



Et

RN 652150-28-2 CAPLUS
 CN Erythromycin, 6,11-O-2-butene-1,4-diyl-3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)oxy]-3-oxo-, 9-[O-(methoxymethyl)oxime], 2'-benzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



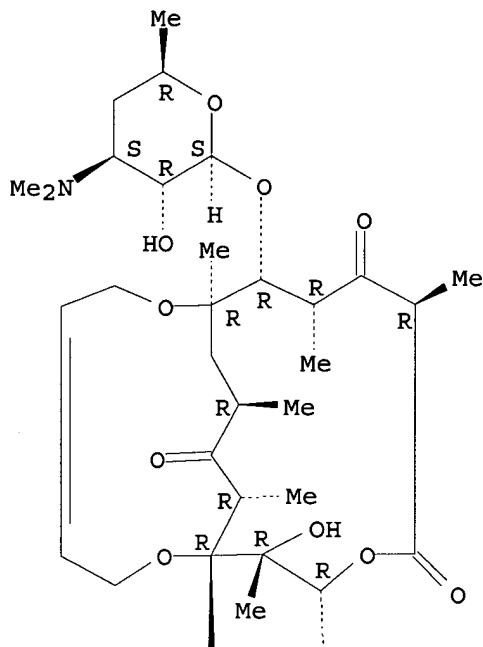
⋮
Et

RN 652150-29-3 CAPLUS

CN Erythromycin, 6,11-O-2-butene-1,4-diyl-3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)oxy]-3-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.



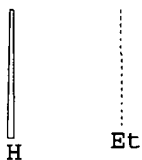
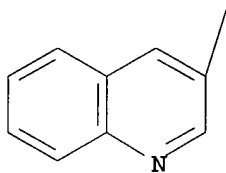
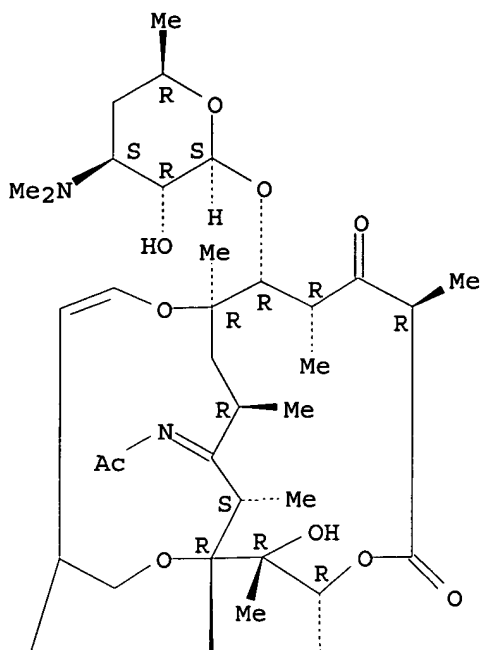
H ⋮
Et

RN 652150-31-7 CAPLUS

CN Erythromycin, 9-(acetylrimino)-3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)oxy]-9-deoxo-3-oxo-6,11-O-[3-(3-quinolinyl)-1-butene-1,4-diyl]- (9CI) (CA INDEX NAME)

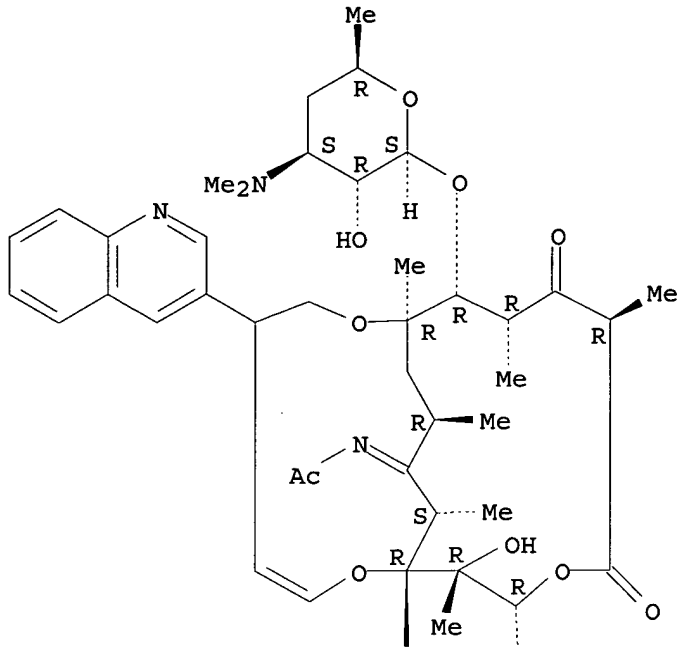
Absolute stereochemistry.

Double bond geometry unknown.



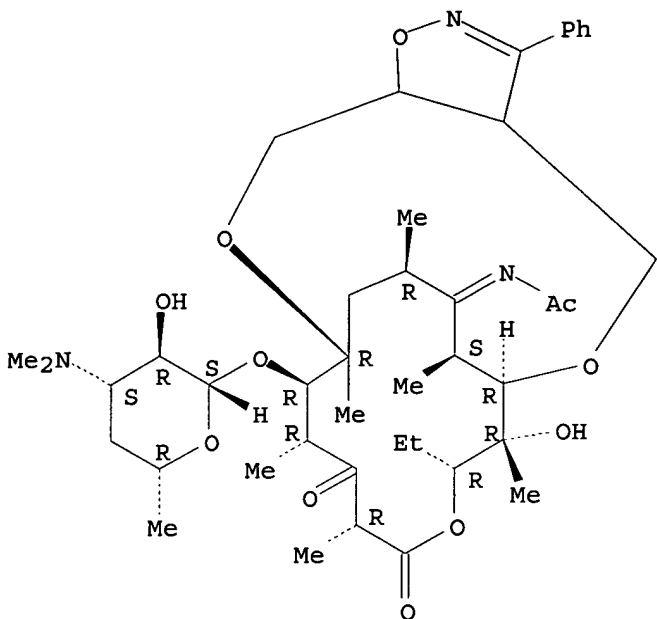
RN 652150-32-8 CAPLUS
 CN Erythromycin, 9-(acetylimino)-3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl-
 α-L-ribo-hexopyranosyl)oxy]-9-deoxy-3-oxo-11,6-O-[3-(3-quinolinyl)-1-
 butene-1,4-diyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



RN 652150-33-9 CAPLUS
 CN Acetamide, N-[(6R,7R,8R,11R,13R,14R,15R,19R,21S)-8-ethyl-3a,4,7,8,10,11,12,13,14,15,17,17a-dodecahydro-7-hydroxy-7,11,13,15,19,21-hexamethyl-10,12-dioxo-3-phenyl-14-[[3,4,6-trideoxy-3-(dimethylamino)-β-D-xylo-hexopyranosyl]oxy]-6,15-butano-6H-[1,5,10]trioxacyclohexadecino[7,8-d]isoxazol-20-ylidene]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

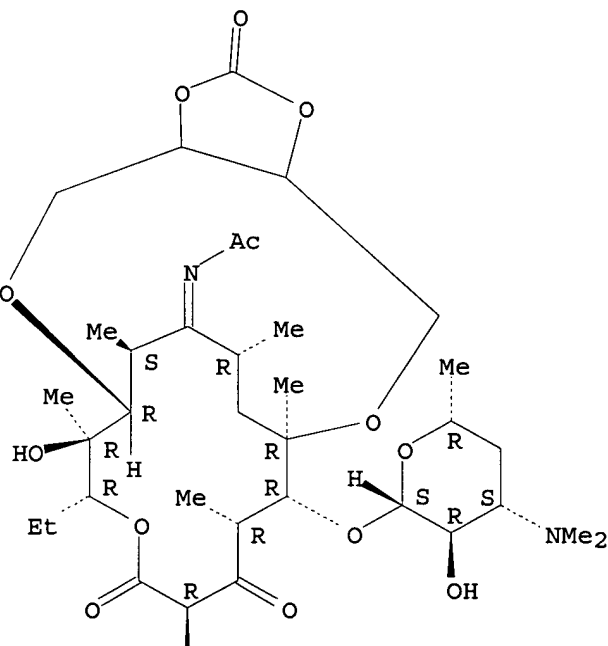


RN 652150-34-0 CAPLUS

CN Acetamide, N-[(6R,7R,8R,11R,13R,14R,15R,19R,21S)-8-ethyl-3a,4,7,8,10,11,12,13,14,15,17,17a-dodecahydro-7-hydroxy-7,11,13,15,19,21-hexamethyl-2,10,12-trioxo-14-[3,4,6-trideoxy-3-(dimethylamino)-β-D-xylo-hexopyranosyl]oxy]-6,15-butano-6H-6,15-butano-6H-1,3-dioxolo[4,5-g][1,5,10]trioxacyclohexadecin-20-ylidene]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

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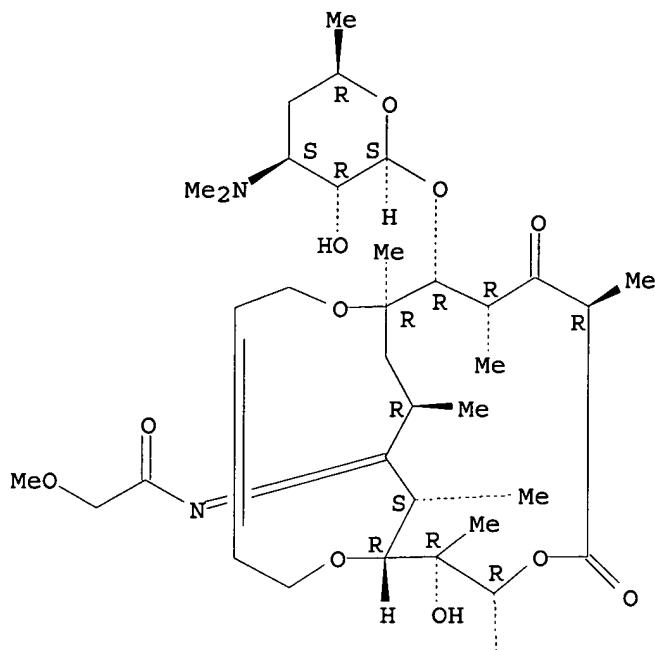
PAGE 2-A

Me

RN 652150-35-1 CAPLUS
CN Erythromycin, 6,11-O-2-butene-1,4-diyl-3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)oxy]-9-deoxo-9-[(methoxyacetyl)imino]-3-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A

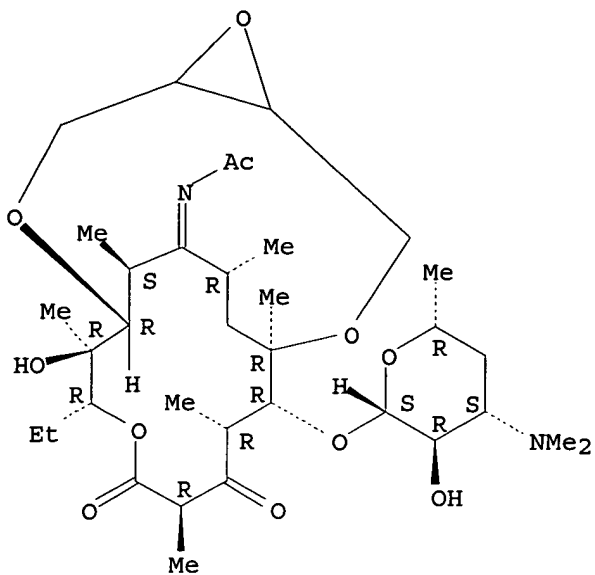


PAGE 2-A

Et

RN 652150-36-2 CAPLUS
CN Acetamide, N-[(1R,2R,3R,6R,8R,9R,10R,18S,20R)-3-ethyl-2-hydroxy-2,6,8,10,18,20-hexamethyl-5,7-dioxo-9-[[3,4,6-trideoxy-3-(dimethylamino)- β -D-xylo-hexopyranosyl]oxy]-4,11,14,17-tetraoxatricyclo[8.7.4.0.13,15]heneicosan-19-ylidene]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



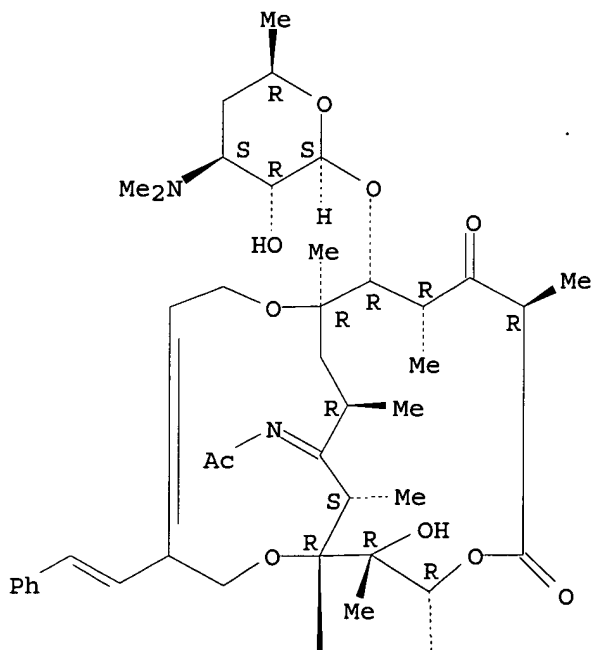
RN 652150-37-3 CAPLUS

CN Erythromycin, 9-(acetylimino)-3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)oxy]-9-deoxy-3-oxo-11,6-O-[2-(2-phenylethenyl)-2-butene-1,4-diyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

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IT 314050-31-2P 652150-08-8P 652150-09-9P
 652150-10-2P 652150-11-3P 652150-12-4P
 652150-13-5P 652150-14-6P 652150-16-8P

652150-17-9P 652150-18-0P 652150-19-1P

652150-20-4P 652150-21-5P 652150-22-6P

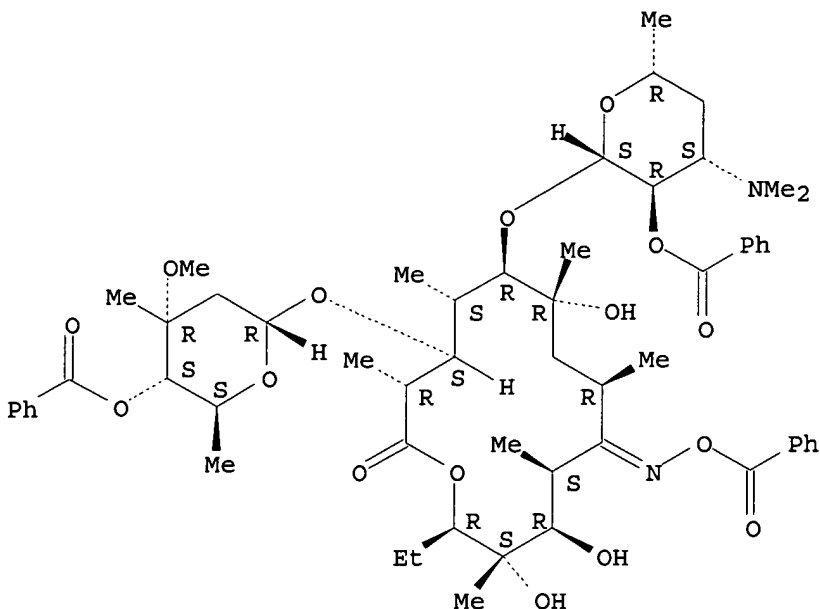
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of carbon bridged macrolide ketolides erythromycin analogs as antibacterial agents)

RN 314050-31-2 CAPLUS

CN Erythromycin, 9-(O-benzoyloxime), 2',4''-dibenzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

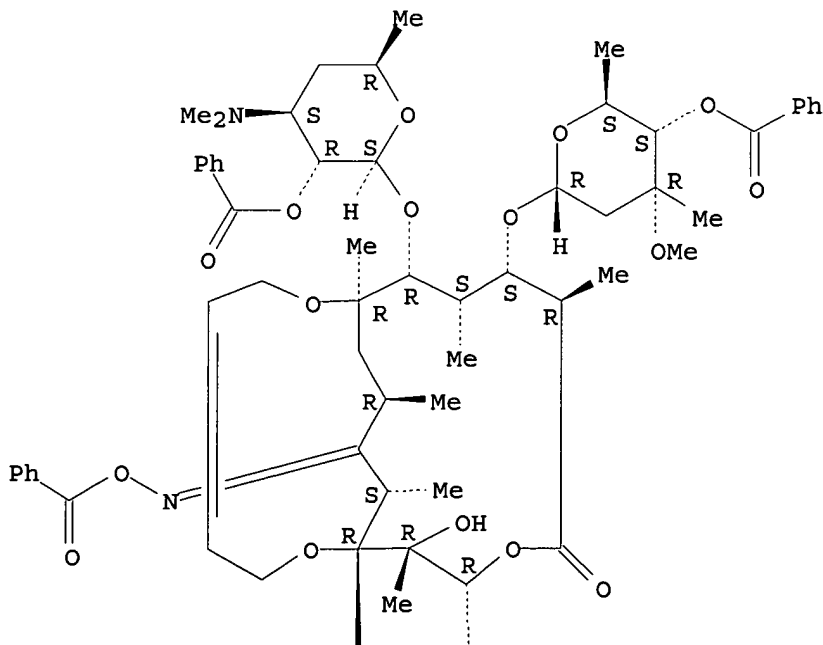


RN 652150-08-8 CAPLUS

CN Erythromycin, 6,11-O-2-butene-1,4-diyl-, 9-(O-benzoyloxime), 2',4''-dibenzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

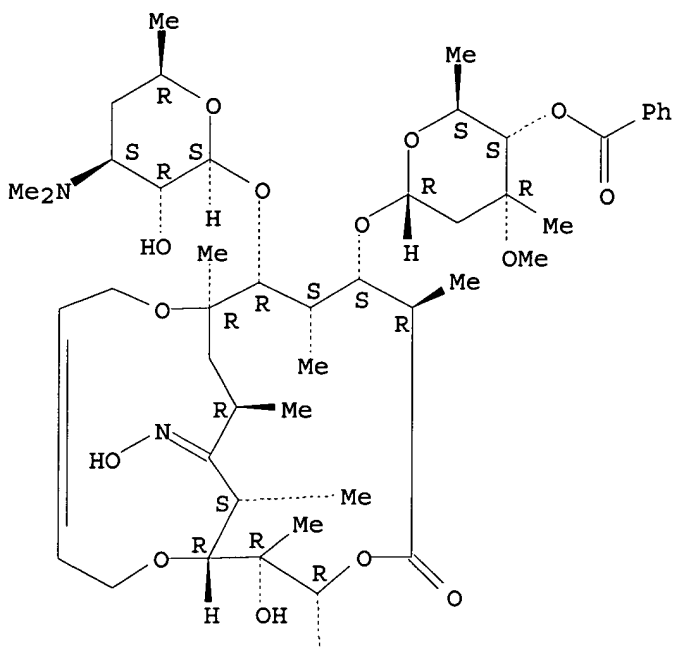


PAGE 1-A



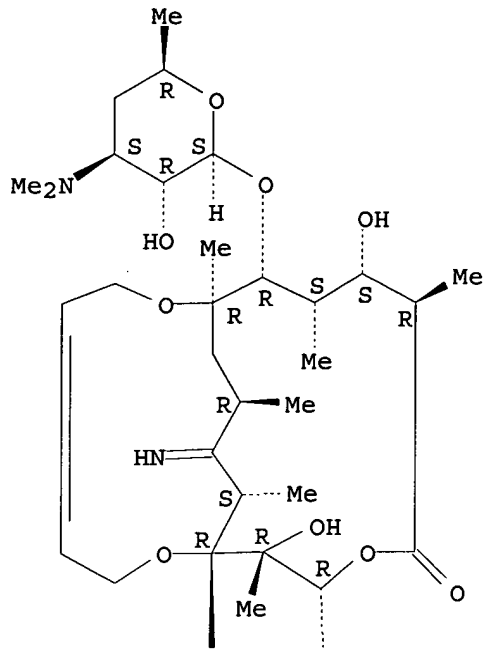
RN 652150-09-9 CAPLUS
 CN Erythromycin, 6,11-O-2-butene-1,4-diyl-, 9-oxime, 4''-benzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



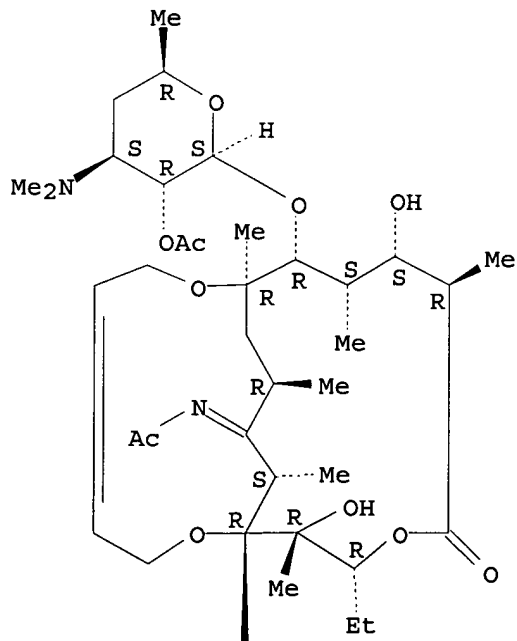
RN 652150-10-2 CAPLUS
 CN Erythromycin, 6,11-O-2-butene-1,4-diyl-3-O-de(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)-9-deoxo-9-imino- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



RN 652150-11-3 CAPLUS
 CN Erythromycin, 9-(acetylimino)-6,11-O-2-butene-1,4-diyl-3-O-de(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)-9-deoxo-, 2'-acetate (9CI) (CA INDEX NAME)

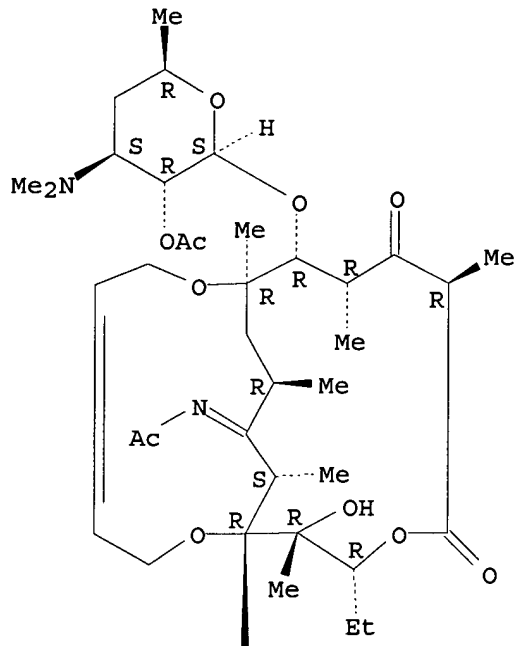
Absolute stereochemistry.
 Double bond geometry unknown.





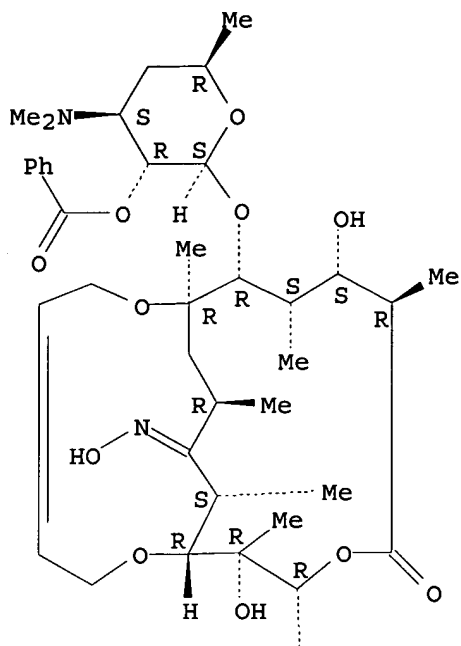
RN 652150-12-4 CAPLUS
 CN Erythromycin, 9-(acetylimino)-6,11-O-2-butene-1,4-diyl-3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)oxy]-9-deoxo-3-oxo-, 2'-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



RN 652150-13-5 CAPLUS
 CN Erythromycin, 6,11-O-2-butene-1,4-diyl-3-O-de(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)-, 9-oxime, 2'-benzoate (9CI) (CA INDEX NAME)

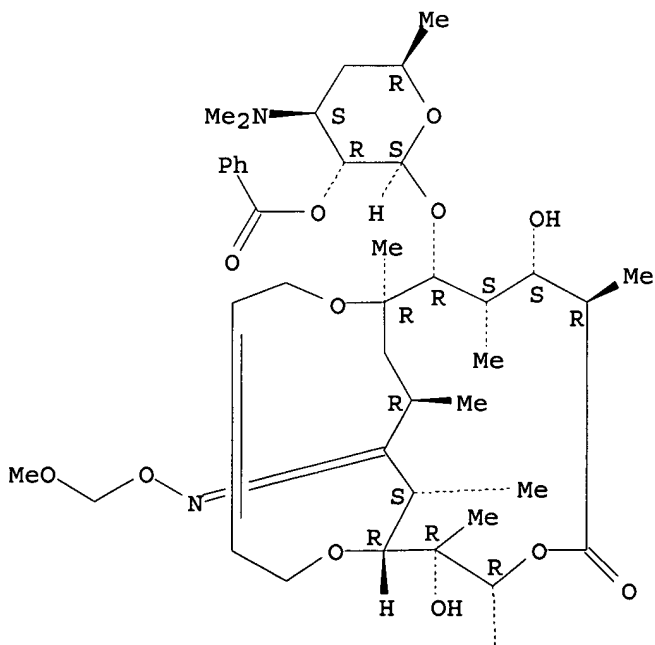
Absolute stereochemistry.
 Double bond geometry unknown.



Et

RN 652150-14-6 CAPLUS
 CN Erythromycin, 6,11-O-2-butene-1,4-diyl-3-O-de(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)-, 9-[O-(methoxymethyl)oxime], 2'-benzoate (9CI) (CA INDEX NAME)

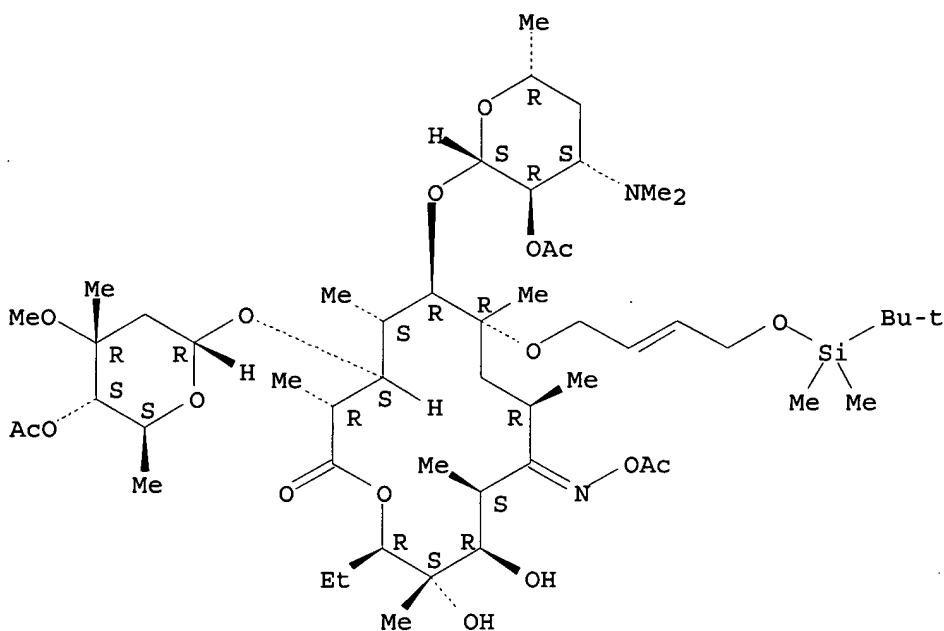
Absolute stereochemistry.
 Double bond geometry unknown.



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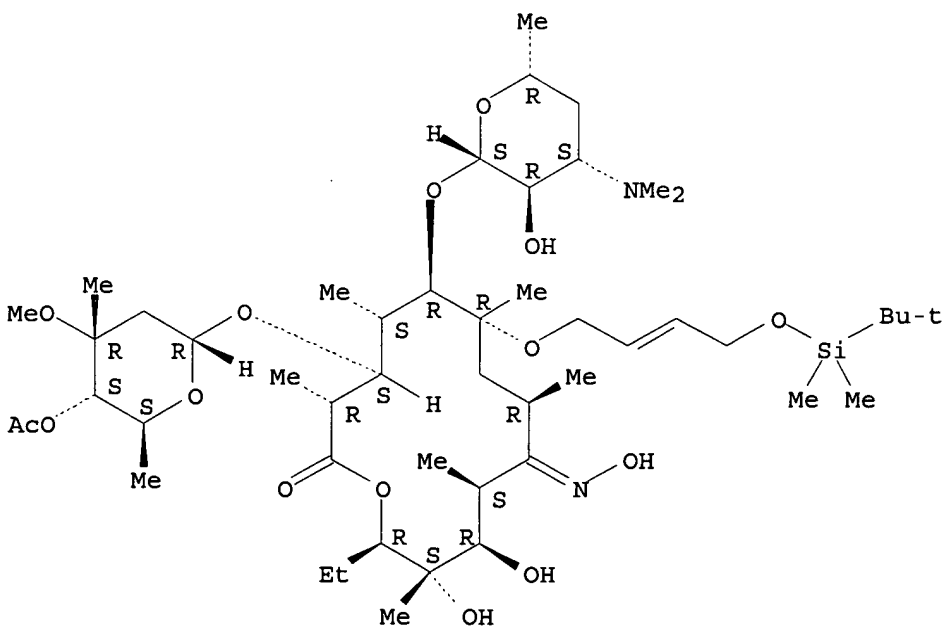
RN 652150-16-8 CAPLUS
CN Erythromycin, 6-O-[4-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-butenyl]-, 9-(O-acetyloxime), 2',4''-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 652150-17-9 CAPLUS
CN Erythromycin, 6-O-[4-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-butenyl]-, 9-oxime, 4''-acetate (9CI) (CA INDEX NAME)

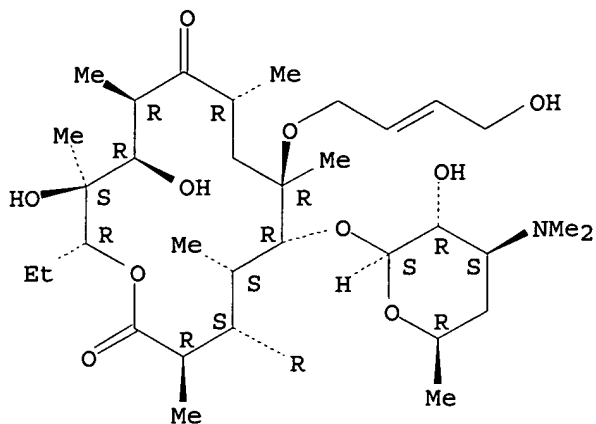
Absolute stereochemistry.
Double bond geometry unknown.



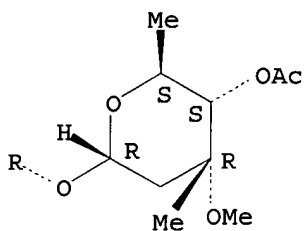
RN 652150-18-0 CAPLUS
CN Erythromycin, 6-O-(4-hydroxy-2-butenyl)-, 4''-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

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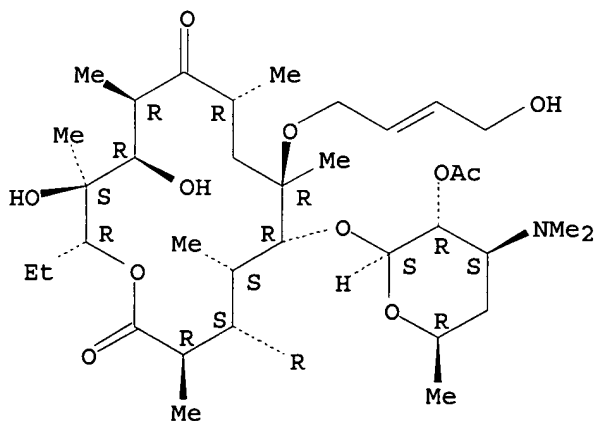
PAGE 2-A

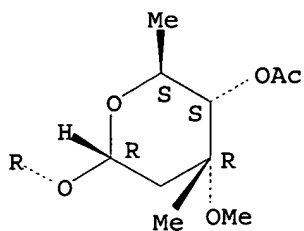


RN 652150-19-1 CAPLUS
CN Erythromycin, 6-O-(4-hydroxy-2-butenyl)-, 2',4''-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



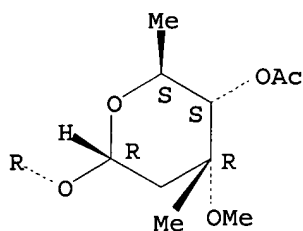
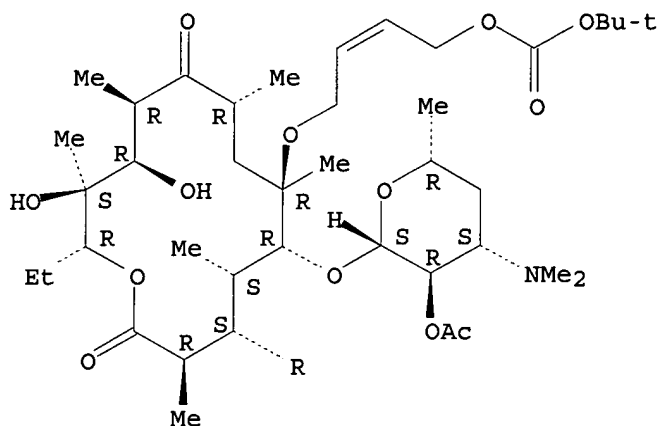


RN 652150-20-4 CAPLUS

CN Erythromycin, 6-O-[4-[[[(1,1-dimethylethoxy)carbonyl]oxy]-2-butenyl]-, 2',4''-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

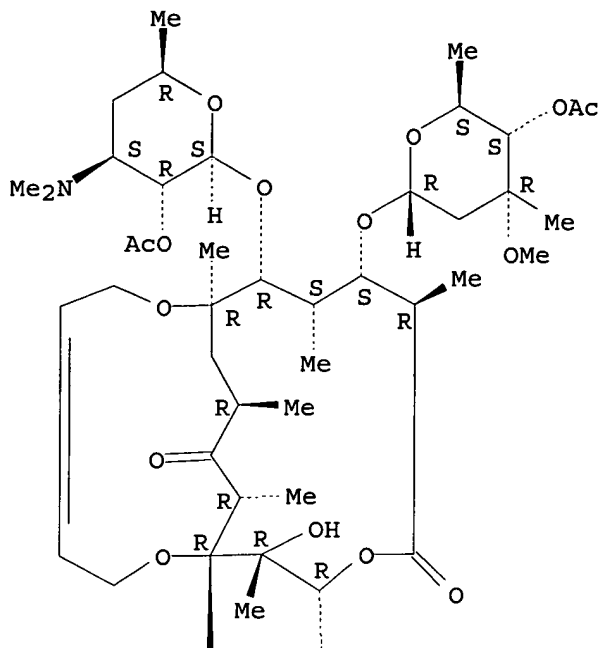


RN 652150-21-5 CAPLUS

CN Erythromycin, 6,11-O-2-butene-1,4-diyl-, 2',4''-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.



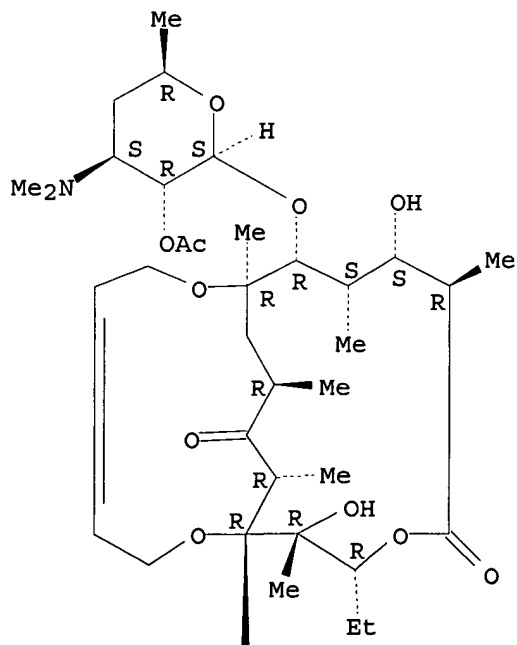
PAGE 2-A



RN 652150-22-6 CAPLUS
 CN Erythromycin, 6,11-O-2-butene-1,4-diyl-3-O-de(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)-, 2'-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

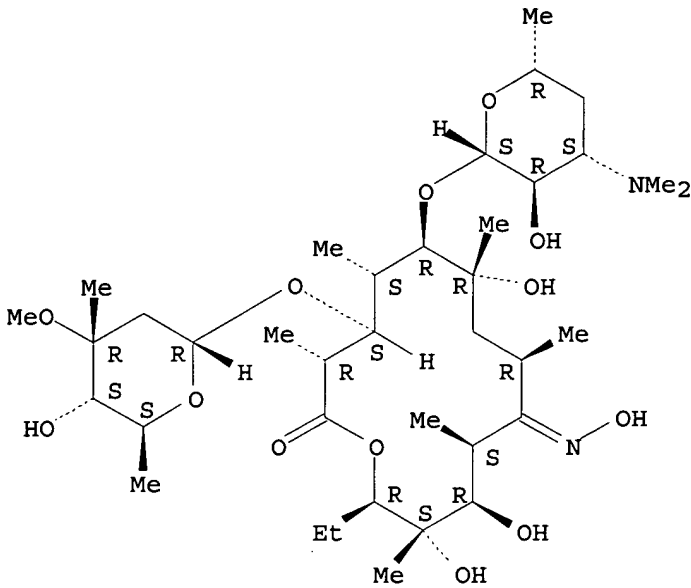
PAGE 1-A



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H

IT 13127-18-9, Erythromycin A oxime
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of carbon bridged macrolide ketolides erythromycin
 analogs as antibacterial agents)
 RN 13127-18-9 CAPLUS
 CN Erythromycin, 9-oxime (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2001:936032 CAPLUS
 DN 136:58887
 TI Treating traumatic burns or blisters of the skin by a polymer-based
 hydrogel
 IN Hymes, Alan C.; Nichols, Jane
 PA Lectec Corp., USA
 SO U.S. Pat. Appl. Publ., 11 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

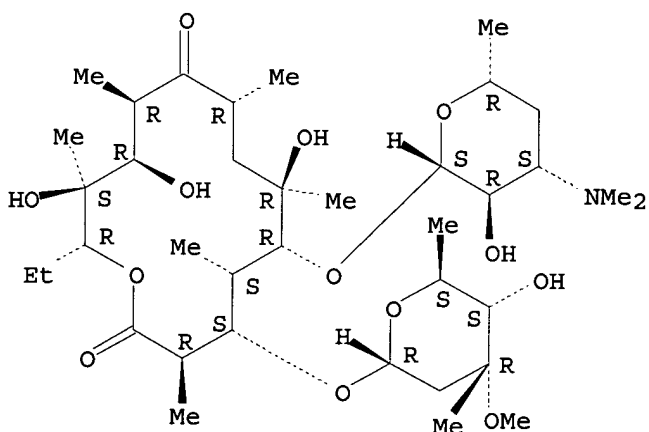
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2001055608	A1	20011227	US 1999-314271	19990518
	US 6348212	B2	20020219		
PRAI	US 1999-314271		19990518		

AB Blisters of the skin are treated by applying to the skin over the blister a flexible moisture-containing hydrophilic hydrogel patch that includes a backing support such as paper, cloth or plastic and a water-based hydrogel layer applied to the backing. The hydrogel layer comprises a hydrophilic natural or synthetic polymer to provide body dispersed in water and can be a tacky adhesive. The polymer can comprise any high mol. weight hydrophilic carbohydrate such as karaya, cornstarch, or a kelp gel and/or a synthetic hydrophilic polymer such as polyacrylamide or

polyacrylic acid. A humectant such as a polyhydric alc., keeps the gel layer moist. A solute such as salt, protein, sugar or an alc. is dissolved in the water in a quantity sufficient to raise the osmotic pressure enough to maintain the hydrogel layer in a hypertonic state with respect to the blister. The hydrogel which hydrates the normally dry upper layer of skin forms a hydrophilic bridge with the patient's skin that allows fluid to be drawn by osmotic pressure from the blister through the normally dry stratum corneum into the patch. In addition, the hydrogel very quickly significantly diminishes the pain secondary to skin burns and blisters. For example, a hydrophilic adhesive composition contained (by weight) glycerin 22.0%, water 10.0%, propylene glycol 20.0%, NaCl 1.0%, and polyquaternary amine 37.0%. Patches containing this composition were applied to the patient with second degree burns and blisters on the hand and fingers. Within 5 min the patient reported that the pain was completely gone. The patches were replaced about 3 h after they were first placed. Examination of the fingers revealed there was no clin. fluid within the blisters and there was no recurrent pain to the air or gentle palpation. When the burned areas were examined 4 days later, there were only minimal findings in the wounded areas. Further, the patient had never had any recurrence of pain or limitations of motion and use of the fingers. The probable action of the hypertonic hydrophilic gel layer of the patch on first and second degree burns is twofold. First, the hypertonic gel layer removed the fluid within the blisters and some of the increased extracellular fluid in the surrounding areas as a result of the burn. The result of this action reduced the inflammation which apparently never returned. Second, the immediate effect of the hydrophilic gel almost immediately removed the pain by covering the burned surface with a moist layer of hydrogel, thereby reducing or eliminating the irritation to the pain sensors in the burned skin. As the fluid was removed and the acute inflammation subsided, the pain also clin. abated without the presence of the hydrogel patch.

IT 114-07-8, Erythromycin
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (hypertonic polymer-based hydrogel patch for treatment of traumatic
 burns or blisters)
 RN 114-07-8 CAPLUS
 CN Erythromycin (8CI, 9CI) (CA INDEX NAME)

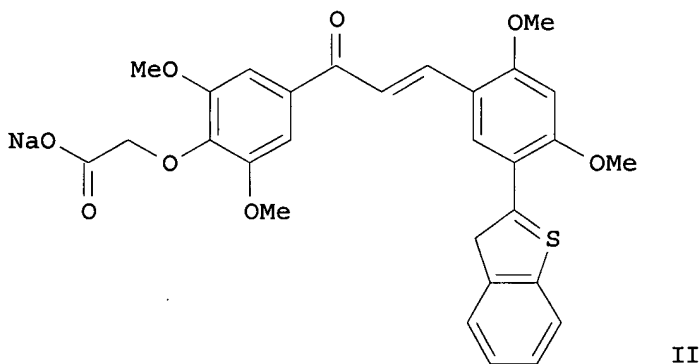
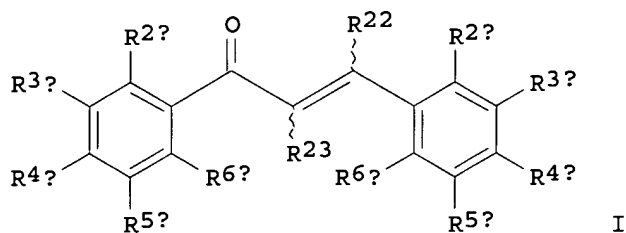
Absolute stereochemistry. Rotation (-).



L7 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2001:935594 CAPLUS
 DN 136:69730
 TI Preparation of 1,3-bis-(substituted-phenyl)-2-propen-1-ones as VCAM-1
 inhibitors for treatment of inflammatory disorders
 IN Meng, Charles Q.; Ni, Liming; Sikorski, James A.; Hoong, Lee K.
 PA Atherogenics, Inc., USA
 SO PCT Int. Appl., 220 pp.
 CODEN: PIXXD2
 DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001098291	A2	20011227	WO 2001-US19720	20010620
	WO 2001098291	A3	20020516		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2413878	AA	20011227	CA 2001-2413878	20010620
	BR 2001011889	A	20030624	BR 2001-11889	20010620
	EP 1330448	A2	20030730	EP 2001-946583	20010620
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 6608101	B1	20030819	US 2001-886348	20010620
	JP 2004501147	T2	20040115	JP 2002-504247	20010620
	NZ 523443	A	20041126	NZ 2001-523443	20010620
PRAI	US 2000-212769P	P	20000620		
	US 2000-255934P	P	20001215		
	WO 2001-US19720	W	20010620		
OS	MARPAT 136:69730				
GI					

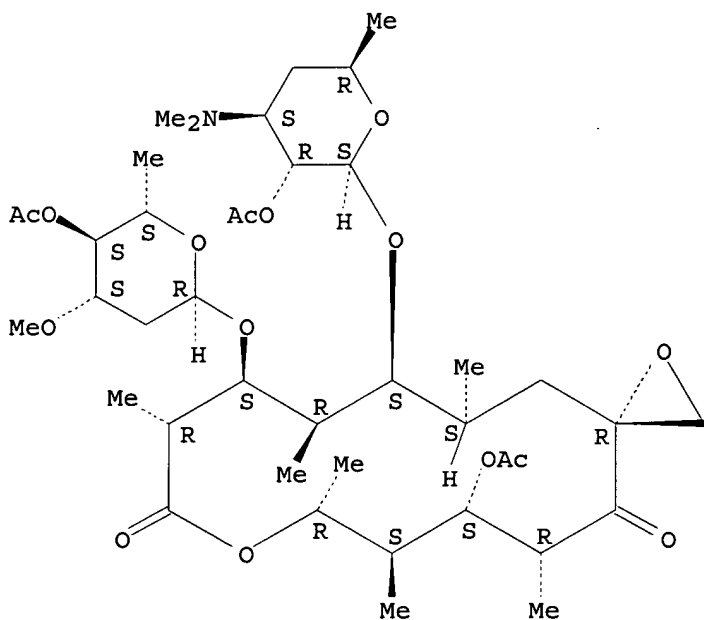


AB Title compds. I [wherein R2a, R3a, R4a, R5a, R6a, R2b, R3b, R4b, R5b, and R6b = independently H, (cyclo)alkyl, (hetero)aryl, carbocyclyl, (halo)alkylthio, (un)substituted alkoxy or amino, (halo)acyl, amido, (halo)alkylsulfonyl, aminocarbonyl, alkenyl, alkynyl, halo, OH, SH, CN, NO₂, SO₃H, sulf(on)amido, PO₃H₂, alditol, carbohydrate, amino acid, etc.; R22 and R23 = independently H or alkyl; or R22 and R6a or R23 and R6a can join together to form a **bridged** carbocycle, (hetero)aryl, or heterocycle; R2a and R3a, R3a and R4a, R4a and R5a, R5a and R6a, R2b and R3b, R3b and R4b, R4b and R5b, or R5b and R6b and independently join to form a **bridged** (un)substituted carbocycle, cycloalkenyl, cycloalk(en)ylcarbonyl, (hetero)aryl, heterocycle, or alkylenedioxy; and the E or Z isomers thereof] were prepared to inhibit the expression of

VCAM-1. For example, 3',5'-dimethoxy-4'-hydroxyacetophenone was treated with Et glycolate, PPh3, and di-Et azodicarboxylate in THF to give 4'-ethoxycarbonylmethoxy-3',5'-dimethoxyacetophenone (90%). Coupling the acetophenone and 5-(benzo[b]thien-2-yl)-2,4-dimethoxybenzaldehyde (preparation given) in the presence of NaOH in absolute EtOH afforded the 1,3-diphenyl-2-propen-1-one II (39%), which stimulated cultured human aortic smooth muscle cell activity with IC50 of 0.45 μM. I are useful for the treatment of inflammatory disorders that are mediated by VCAM-1, including arthritis, asthma, dermatitis, cystic fibrosis, post transplantation late and chronic solid organ rejection, multiple sclerosis, systemic lupus erythematosus, inflammatory bowel diseases, autoimmune diabetes, diabetic retinopathy, rhinitis, ischemia-reperfusion injury, post-angioplasty restenosis, chronic obstructive pulmonary disease (COPD), glomerulonephritis, Graves disease, gastrointestinal allergies, conjunctivitis, atherosclerosis, coronary artery disease, angina and small artery disease.

IT 2751-09-9, Troleandomycin
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (co-administration of bis(substituted phenyl)propenone VCAM-1 inhibitors with other biol. agents)
 RN 2751-09-9 CAPLUS
 CN Oleandomycin, triacetate (ester) (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2000:824079 CAPLUS
 DN 133:366452
 TI Method for treating acne or isolated pimples and adhesive patch therefor
 IN Hymes, Alan C.
 PA Lec Tec Corporation, USA
 SO PCT Int. Appl., 37 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000069405	A1	20001123	WO 2000-US13539	20000518
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,				

LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
 SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW,
 AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6455065 B1 20020924 US 1999-314272 19990518

PRAI US 1999-314272 A 19990518

AB The skin disorder acne, as well as one or more isolated pimples, are treated by applying to the skin, over the skin disorder, a flexible moisture-containing hydrophilic hydrogel patch that includes a backing support such as paper, cloth or plastic and a water-based hydrogel layer applied to the backing. The hydrogel layer comprises a hydrophilic natural or synthetic polymer dispersed in water to provide body and can be a tacky adhesive. The polymer can comprise any high mol. weight hydrophilic carbohydrate such as karaya, cornstarch, or kelp and/or a synthetic hydrophilic polymer such a polyacrylamide or polyacrylic acid. A humectant such as an alc. containing two or more hydroxyl groups, i.e., a polyhydric alc., keeps the adhesive layer moist. A solute such as salt, protein, sugar or an alc. is dissolved in the water in a quantity sufficient to raise the osmotic pressure enough to maintain the adhesive hydrogel layer in a hypertonic state with respect to the underlying skin tissue. The hydrogel adhesive which hydrates the upper layer of skin forms a hydrophilic bridge with the patient's skin that allows fluid to be drawn by osmotic pressure from the skin disorder through the normally dry stratum corneum into the patch. Another aspect of the invention is a hypertonic moisture-containing adhesive patch itself.

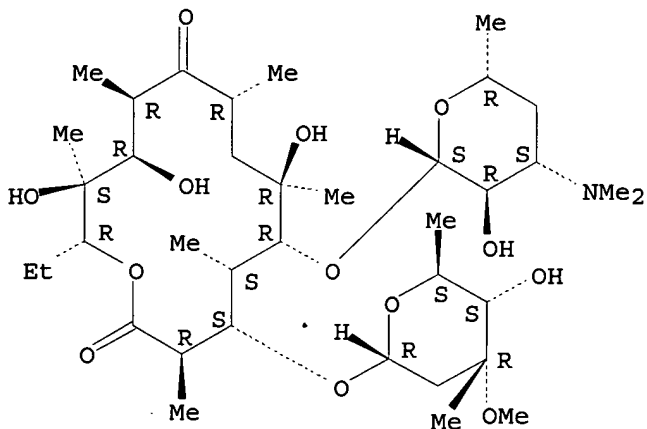
IT 114-07-8, Erythromycin

RL: BUU (Biological use, unclassified); DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (treating acne or isolated pimples with adhesive patch)

RN 114-07-8 CAPLUS

CN Erythromycin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



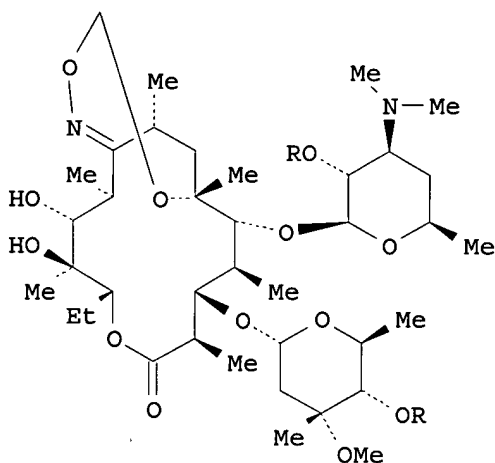
RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1998:479052 CAPLUS
 DN 129:122840
 TI Preparation of 6,9-bridged erythromycins as bactericides
 IN Or, Yat Sun; Clark, Richard F.; Chu, Daniel T.; Plattner, Jacob J.
 PA Abbott Laboratories, USA
 SO U.S., 20 pp.
 CODEN: USXXAM
 DT Patent
 LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 5780605	A	19980714	US 1997-925582	19970908
	ZA 9807688	A	19990224	ZA 1998-7688	19980825
	CA 2301643	AA	19990318	CA 1998-2301643	19980901
	WO 9912947	A1	19990318	WO 1998-US18225	19980901
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	DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG,				
	KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,				
	NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,				
	UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,				
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	CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9892162	A1	19990329	AU 1998-92162	19980901
	EP 1015467	A1	20000705	EP 1998-944680	19980901
	EP 1015467	B1	20040107		
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,				
	SI, FI, RO				
	BR 9812148	A	20000718	BR 1998-12148	19980901
	TR 200000620	T2	20000921	TR 2000-200000620	19980901
	JP 2001515915	T2	20010925	JP 2000-510753	19980901
	AT 257484	E	20040115	AT 1998-944680	19980901
	PT 1015467	T	20040531	PT 1998-944680	19980901
	ES 2213915	T3	20040901	ES 1998-944680	19980901
	NO 2000001169	A	20000405	NO 2000-1169	20000307
	BG 104288	A	20010131	BG 2000-104288	20000330
PRAI	US 1997-925582	A	19970908		
	WO 1998-US18225	W	19980901		
OS	MARPAT 129:122840				
GI					



I

AB Novel multi-cyclic erythromycin compds. and pharmaceutically acceptable salts and esters thereof having antibacterial activity having a formula I (R = H, hydroxy protecting group) comprising a therapeutically effective amount of a compound of the invention in combination with a pharmaceutically acceptable carrier, as well as a method for treating bacterial infections by administering to a mammal a pharmaceutical composition containing a therapeutically-effective amount of a compound of the invention. Thus, I (R = H) was prepared as antibacterial agent (MIC = 0.05-128).

IT 210244-59-0P 210244-60-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

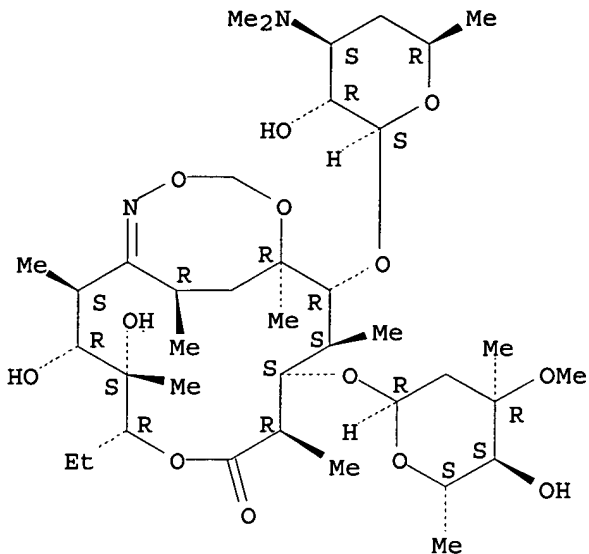
(preparation of 6,9-bridged erythromycins as bactericides)

RN 210244-59-0 CAPLUS

CN 6,13,15-Trioxa-16-azabicyclo[10.4.2]octadec-16-en-7-one,
9-[(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)oxy]-5-ethyl-3,4-dihydroxy-2,4,8,10,12,17-hexamethyl-11-[[3,4,6-trideoxy-3-(dimethylamino)- β -D-xylo-hexopyranosyl]oxy]-,

(2S,3R,4S,5R,8R,9S,10S,11R,12R,17R) - (9CI) (CA INDEX NAME)

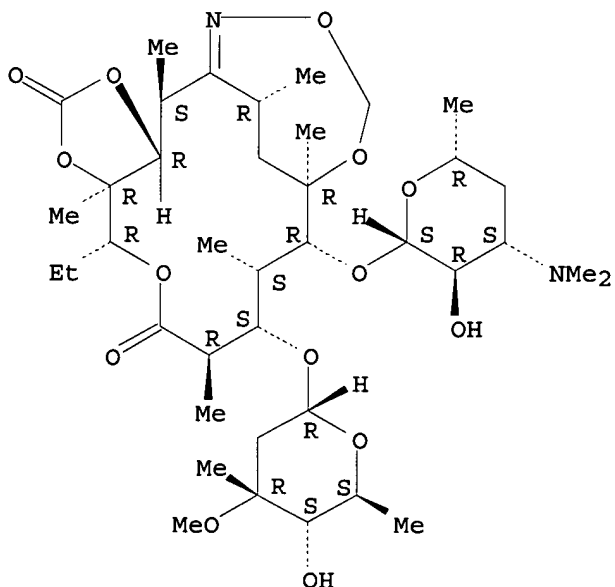
Absolute stereochemistry.



RN 210244-60-3 CAPLUS

CN 11,16-Ethano-1,3-dioxolo[4,5-e][1,8,15,2]trioxazacyclohexadecine-2,6(7H)-dione, 8-[(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribohexopyranosyl)oxy]-4-ethyl-3a,4,8,9,10,11,17,17a-octahydro-3a,7,9,11,17,18-hexamethyl-10-[[3,4,6-trideoxy-3-(dimethylamino)- β -D-xylohexopyranosyl]oxy]-, (3aR,4R,7R,8S,9S,10R,11R,17S,17aR,18R) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 210244-63-6P

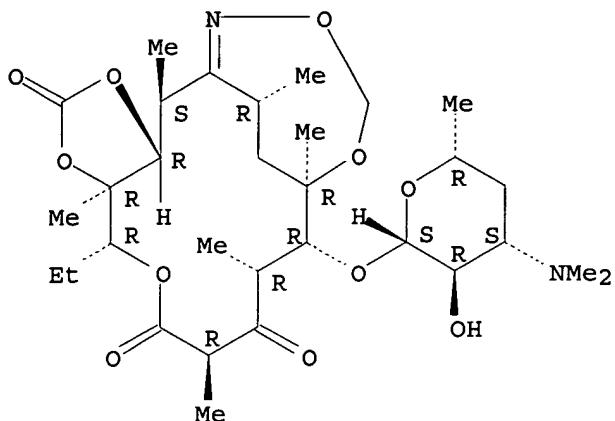
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 6,9-bridged erythromycins as bactericides)

RN 210244-63-6 CAPLUS

CN 11,16-Ethano-1,3-dioxolo[4,5-e][1,8,15,2]trioxazacyclohexadecine-2,6,8(7H,9H)-trione, 4-ethyl-3a,4,10,11,17,17a-hexahydro-3a,7,9,11,17,18-

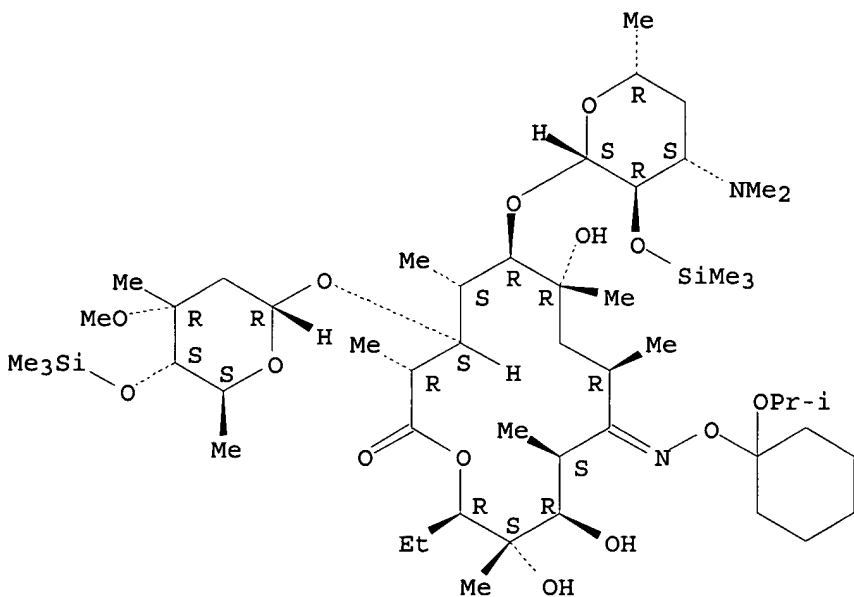
hexamethyl-10-[[3,4,6-trideoxy-3-(dimethylamino)- β -D-xylohexopyranosyl]oxy]-, (3aR,4R,7R,9R,10R,11R,17S,17aR,18R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



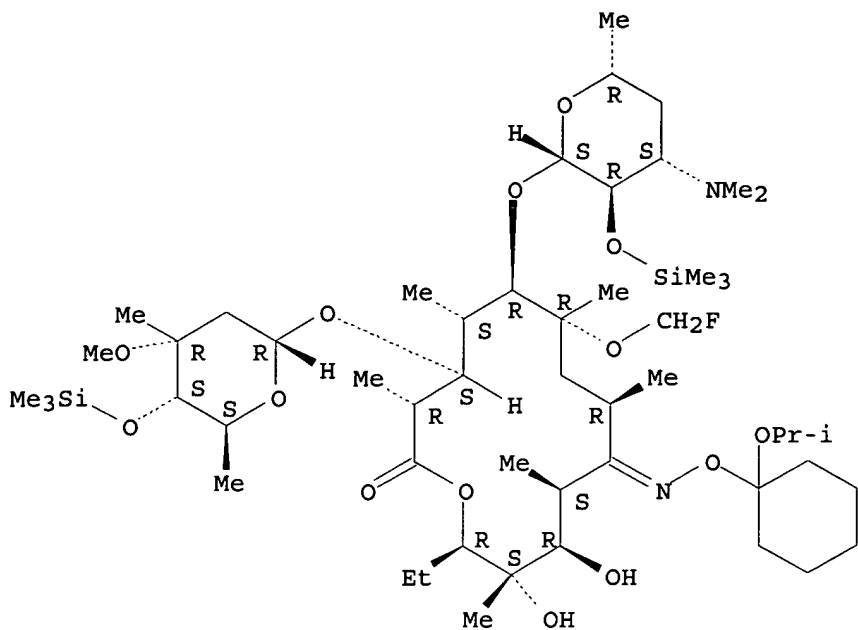
IT 129317-09-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of 6,9-bridged erythromycins as bactericides)
RN 129317-09-5 CAPLUS
CN Erythromycin, 2',4''-bis-O-(trimethylsilyl)-, 9-[O-[(1-methylethoxy)cyclohexyl]oxime] (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



IT 198558-10-0P 210244-61-4P 210244-62-5P
210244-64-7P 210244-65-8P 210244-66-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of 6,9-bridged erythromycins as bactericides)
RN 198558-10-0 CAPLUS
CN Erythromycin, 6-O-(fluoromethyl)-2',4''-bis-O-(trimethylsilyl)-,
9-[O-[1-(1-methylethoxy)cyclohexyl]oxime] (9CI) (CA INDEX NAME)

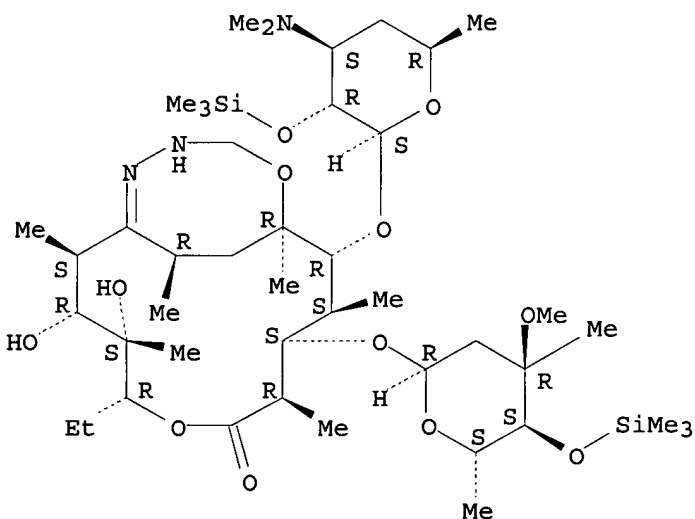
Absolute stereochemistry.
Double bond geometry unknown.



RN 210244-61-4 CAPLUS

CN 6,13-Dioxa-15,16-diazabicyclo[10.4.2]octadec-16-en-7-one,
 9-[[2,6-dideoxy-3-C-methyl-3-O-methyl-4-O-(trimethylsilyl)- α -L-ribo-
 hexopyranosyl]oxy]-5-ethyl-3,4-dihydroxy-2,4,8,10,12,17-hexamethyl-11-
 [[3,4,6-trideoxy-3-(dimethylamino)-2-O-(trimethylsilyl)- β -D-xylo-
 hexopyranosyl]oxy]-, (2S,3R,4S,5R,8R,9S,10S,11R,12R,17R)- (9CI) (CA INDEX
 NAME)

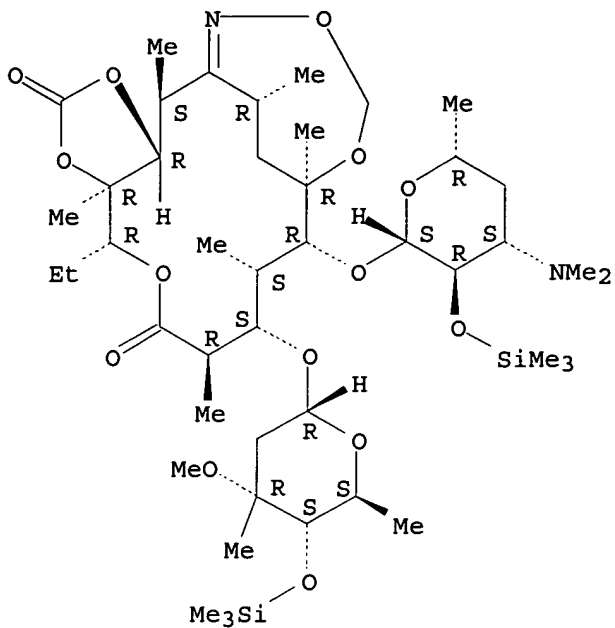
Absolute stereochemistry.



RN 210244-62-5 CAPLUS

CN 11,16-Ethano-1,3-dioxolo[4,5-e][1,8,15,2]trioxazacyclohexadecine-2,6(7H)-
 dione, 8-[[2,6-dideoxy-3-C-methyl-3-O-methyl-4-O-(trimethylsilyl)- α -
 L-ribo-hexopyranosyl]oxy]-4-ethyl-3a,4,8,9,10,11,17,17a-octahydro-
 3a,7,9,11,17,18-hexamethyl-10-[[3,4,6-trideoxy-3-(dimethylamino)-2-O-
 (trimethylsilyl)- β -D-xylo-hexopyranosyl]oxy]-, (3aR,4R,7R,8S,9S,10R,11R,17S,17aR,18R)- (9CI) (CA INDEX NAME)

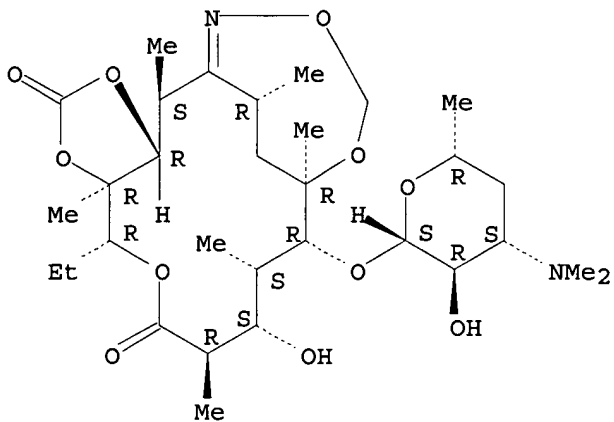
Absolute stereochemistry.



RN 210244-64-7 CAPLUS

CN 11,16-Ethano-1,3-dioxolo[4,5-e][1,8,15,2]trioxazacyclohexadecine-2,6(7H)-dione, 4-ethyl-3a,4,8,9,10,11,17,17a-octahydro-8-hydroxy-3a,7,9,11,17,18-hexamethyl-10-[[3,4,6-trideoxy-3-(dimethylamino)-β-D-xylohexopyranosyl]oxy]-, (3aR,4R,7R,8S,9S,10R,11R,17S,17aR,18R) - (9CI) (CA INDEX NAME)

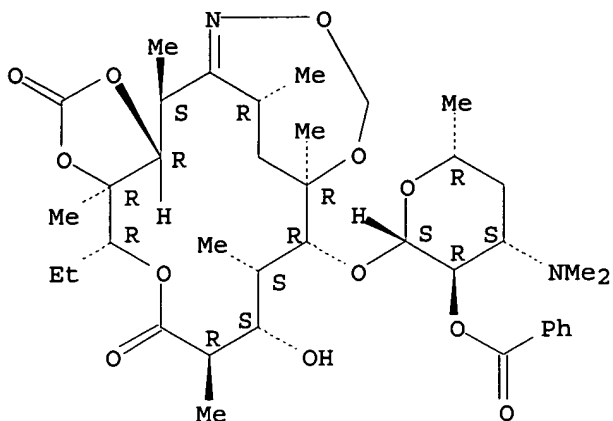
Absolute stereochemistry.



RN 210244-65-8 CAPLUS

CN 11,16-Ethano-1,3-dioxolo[4,5-e][1,8,15,2]trioxazacyclohexadecine-2,6(7H)-dione, 10-[[2-O-benzoyl-3,4,6-trideoxy-3-(dimethylamino)-β-D-xylohexopyranosyl]oxy]-4-ethyl-3a,4,8,9,10,11,17,17a-octahydro-8-hydroxy-3a,7,9,11,17,18-hexamethyl-, (3aR,4R,7R,8S,9S,10R,11R,17S,17aR,18R) - (9CI) (CA INDEX NAME)

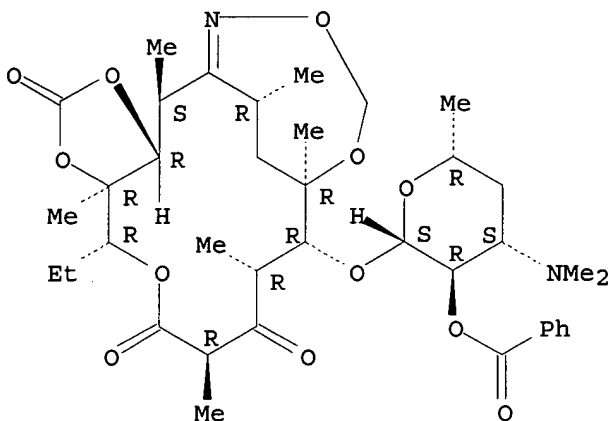
Absolute stereochemistry.



RN 210244-66-9 CAPLUS

CN 11,16-Ethano-1,3-dioxolo[4,5-e][1,8,15,2]trioxazacyclohexadecine-2,6,8(7H,9H)-trione, 10-[[2-O-benzoyl-3,4,6-trideoxy-3-(dimethylamino)-β-D-xylo-hexopyranosyl]oxy]-4-ethyl-3a,4,10,11,17,17a-hexahydro-3a,7,9,11,17,18-hexamethyl-, (3aR,4R,7R,9R,10R,11R,17S,17aR,18R) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1996:469899 CAPLUS

DN 125:163069

TI Group of peptides that act synergistically with hydrophobic antibiotics against gram-negative enteric bacteria

AU Vaara, Martti; Porro, Massimo

CS Dep. Bacteriology Immunology, Univ. Helsinki, Helsinki, 00014, Finland

SO Antimicrobial Agents and Chemotherapy (1996), 40(8), 1801-1805

CODEN: AMACCQ; ISSN: 0066-4804

PB American Society for Microbiology

DT Journal

LA English

AB A synthetic peptide, KFFKFFKFF, consisting of cationic lysine residues and hydrophobic phenylalanine residues was found to sensitize gram-neg. bacteria to hydrophobic and amphipathic antibiotics. At a concentration of 3 μg/mL, it decreased the MIC of rifampin for smooth, encapsulated *Escherichia coli* by a factor of 300. Other susceptible bacterial species included *Enterobacter cloacae*, *Klebsiella pneumoniae*, and *Salmonella typhimurium*, but *Pseudomonas aeruginosa* was resistant. Similar results were obtained with another synthetic peptide, IKFLKFLKFL. The fractional inhibitory concentration indexes for the synergism of these peptides with rifampin, erythromycin, fusidic acid, and novobiocin were very close to those determined for the previously characterized potent

outer-membrane-disorganizing agents polymyxin B nonapeptide and deacylpolymyxin B. KFFKFFKFF had direct activity against the gram-pos. organism *Micrococcus* strain ML36, was strongly hemolytic, and was as active on polymyxin-resistant *E. coli* mutants as on their parent. These three attributes made KFFKFFKFF different from polymyxin derivs. and similar to cationic detergents, such as cetylpyridinium chloride. However, whereas the MIC of cetylpyridinium chloride for *E. coli* is low (0.5 to 4 µg/mL), that of KFFKFFKFF is much higher (30 to 100 µg/mL). Other groups of synthetic peptides studied included polymyxin-like peptides with an intrachain disulfide bridge. Their synergism with antibiotics was less marked. Still other peptides, including KEKEKEKEKE and KKKKKKFLFL, lacked any synergism with the probe antibiotics.

IT 114-07-8, Erythromycin

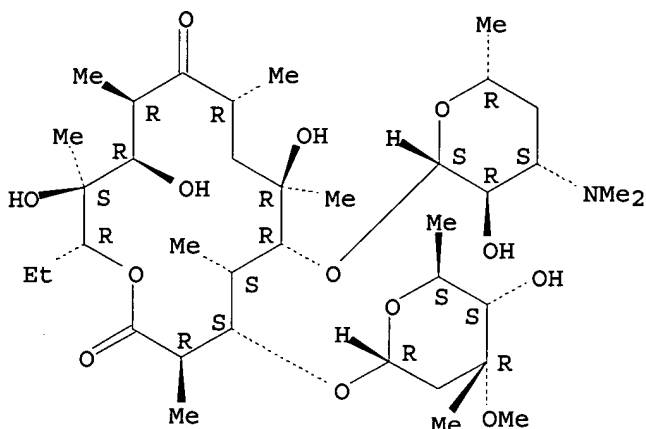
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(synthetic cationic peptides that act synergistically with hydrophobic antimicrobials against gram-neg. enteric bacteria)

RN 114-07-8 CAPLUS

CN Erythromycin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L7 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1993:503327 CAPLUS

DN 119:103327

TI Bioactive topical siloxane compositions having enhanced performance and safety

IN Haney, David N.

PA Special Advanced Biomaterials, Inc., USA

SO PCT Int. Appl., 56 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9217184	A2	19921015	WO 1992-US537	19920122
	W: AU, BB, BG, BR, CA, FI, HU, JP, KP, KR, LK, MG, MW, NO, PL, RO, RU, SD				
	RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG				
	US 5686065	A	19971111	US 1991-675749	19910327
	AU 9212635	A1	19921102	AU 1992-12635	19920122
	JP 06507385	T2	19940825	JP 1992-505414	19920122
	US 5891914	A	19990406	US 1995-487027	19950607
PRAI	US 1991-675749	A	19910327		
	WO 1992-US537	A	19920122		

AB Siloxane compns. are bound to the skin from formulations of a silane coupling agent and a bioactive agent. A topical composition comprises a silane

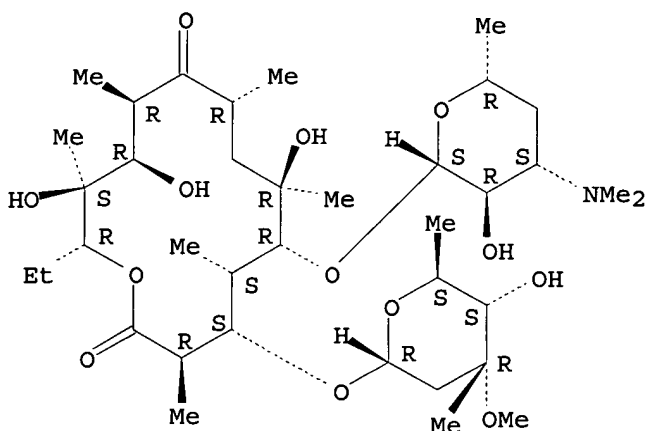
coupling agent and bioactive agent(s), and/or a bifunctional compound which combines with both silane coupling and bioactive groups. Polymerization of these compns. occurs upon contact with the skin surface, allowing both the skin and the bioactive agent(s) to become cross-linked into the siloxane. Skin surface retention utilizes silane bridging agents that are activated to silanols for reaction with the skin surface groups and bioactive agent groups, at the time of end use. According to one method, a silane coupling agent substituted with a bioactive agent is formulated and stored in an anhydrous vehicle, then applied directly to the skin. Moisture on the skin surface or water added at the time of delivery causes the silane to simultaneously polymerize and bond to the skin surface mols. In another method, a silane coupling compound and the bioactive agent are formulated and stored sep., and both are applied to the skin, either simultaneously or one after another, to from the topical siloxane or bound to both the skin and the bioactive agent. Et 2-hydroxypropyl-p-aminobenzoate was reacted with chlorotriethoxysilane, in a 1:2 ratio, in absolute EtOH, in the presence of dicyclohexylamine, to give Et N,N-di-2-triethoxysilylpropyl-p-aminobenzoate. This (10%) in EtOH-cyclomethicone was applied to nude mice. The sunscreen remained bound to the skin by 82%, even after 15 washes.

IT 114-07-8D, Erythromycin, reaction products with siloxanes
 RL: BIOL (Biological study)
 (for topical application to human skin)

RN 114-07-8 CAPLUS

CN Erythromycin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L7 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1991:542252 CAPLUS

DN 115:142252

TI Biodegradable bioactive membrane and methods for guided tissue regeneration

IN Sonis, Stephen T.

PA Brigham and Women's Hospital, USA

SO PCT Int. Appl., 46 pp.
 CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

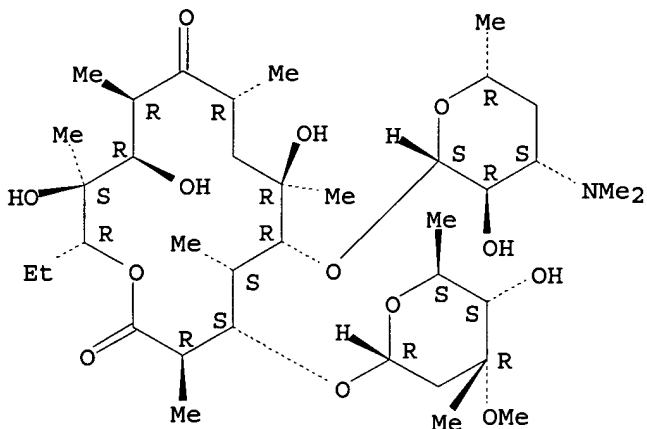
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9013302	A1	19901115	WO 1990-US2406	19900430
	W: AU, CA, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE				
	AU 9056549	A1	19901129	AU 1990-56549	19900430
PRAI	US 1989-344632	A2	19890428		
	WO 1990-US2406	A	19900430		

AB A composition for guided tissue regeneration comprises a biodegradable bioactive membrane having 2 sides, one or both sides containing biol. active substance(s). At least one of these substances is present on one side and

not the other. The composition is applied to the tissue to be regenerated. A membrane of bovine collagen, coated on one side with primary osteogenic factor and on the other with erythromycin, was placed with the factor side covering alveolar bone and bridging the crater. The flaps were sutured and dressed with a com. available periodontal pack. Inflammatory response was noticeably lower and alveolar bone regeneration showed significant improvement compared to controls treated with nonbioactive collagen membranes.

IT 114-07-8, Erythromycin
 RL: BIOL (Biological study)
 (in biodegradable, bioactive collagen membrane for treatment of periodontal bony defects)
 RN 114-07-8 CAPLUS
 CN Erythromycin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L7 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1991:247626 CAPLUS
 DN 114:247626
 TI NMR spectroscopic and x-ray crystallographic studies on the structure, stereochemistry and conformation of a series of 9,11-cyclic aminals of (9S)-9-N-methylerythromycylamine A
 AU Davies, J. Sydney; Everett, Jeremy R.; Hatton, Ian K.; Hunt, Eric; Tyler, John W.; Zomaya, Iskander I.; Slawin, Alexandra M. Z.; Williams, David J.
 CS Res. Div., Beecham Pharm., Betchworth/Surrey, RH3 7AJ, UK
 SO Journal of the Chemical Society, Perkin Transactions 2: Physical Organic Chemistry (1972-1999) (1991), (2), 201-14
 CODEN: JCPKBH; ISSN: 0300-9580
 DT Journal
 LA English
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB (9S)-9-N-Methylerythromycylamine A (I, R = H, R1 = Me) (II) and (9S)-9-N,N-dimethylerythromycylamine A (I, R = R1 = Me) have been synthesized and their solution conformations compared with that of I (R = R1 = H) using ¹H and ¹³C NMR spectroscopy. II reacts with aliphatic aldehydes, e.g. RCH₂CHO (R = H, Me, Ph), to give 9,11-cyclic products, e.g. III [R₂ = H, R₃ = CH₂OH (IV); R₂ = CH₂CH₂OEt, R₃ = H (V)] which are shown to be diastereoisomeric about the bridging carbon atom C-23. Compds. with the same configuration at C-23 show close similarities in their ¹H and ¹³C NMR spectra. The crystal structures of IV and V are thus reported and confirm the structural and conformational conclusions determined by NMR spectroscopy.

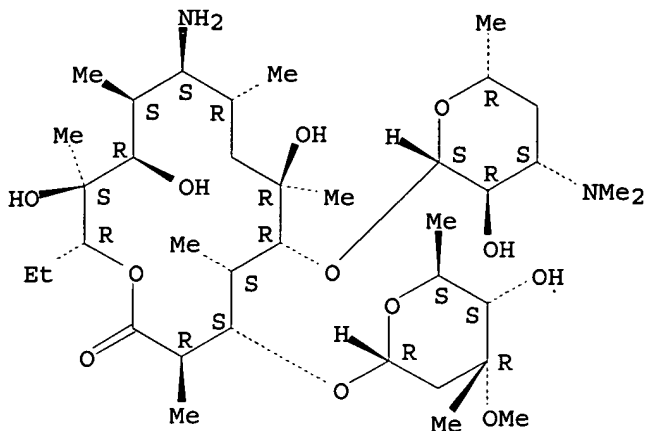
IT 26116-56-3 112451-97-5
 RL: RCT (Reactant); RACT (Reactant or reagent)

(conformation and cyclocondensation of, with aldehydes)

RN 26116-56-3 CAPLUS

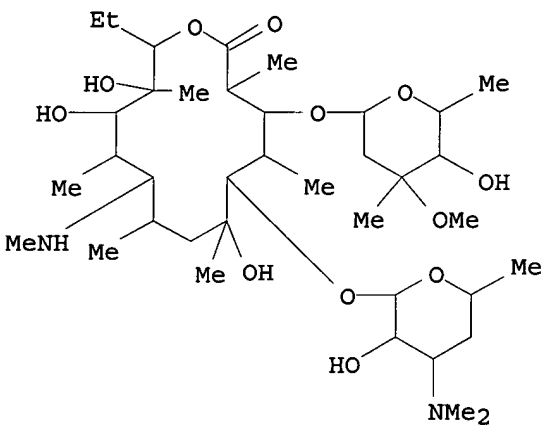
CN Erythromycin, 9-amino-9-deoxo-, (9S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 112451-97-5 CAPLUS

CN Erythromycin, 9-deoxo-9-(methylamino)-, (9S)- (9CI) (CA INDEX NAME)



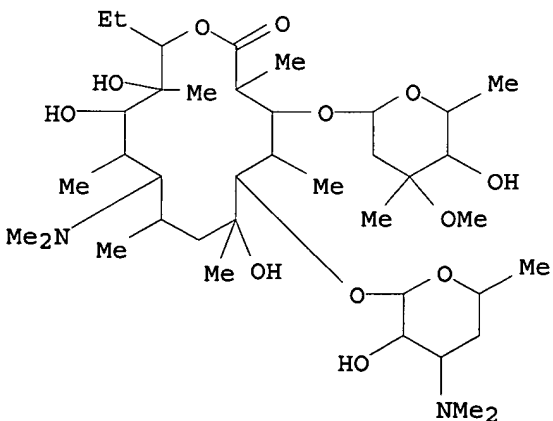
IT 112452-28-5

RL: PRP (Properties)

(conformation of)

RN 112452-28-5 CAPLUS

CN Erythromycin, 9-deoxo-9-(dimethylamino)-, (9S)- (9CI) (CA INDEX NAME)



IT 128321-00-6P 128321-01-7P 128321-02-8P

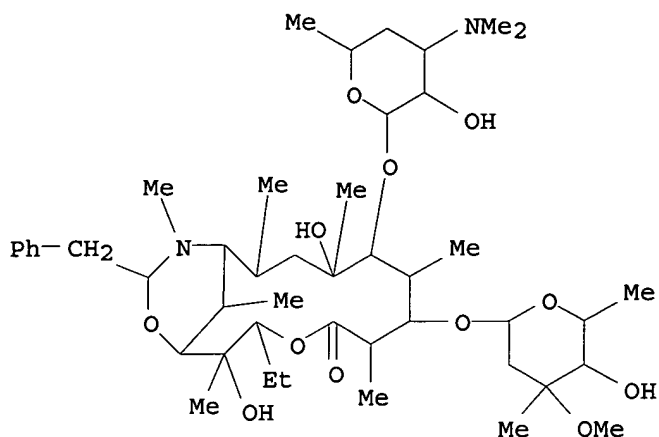
128387-61-1P 133760-29-9P 133760-30-2P

133814-06-9P 133814-07-0P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and conformation of)

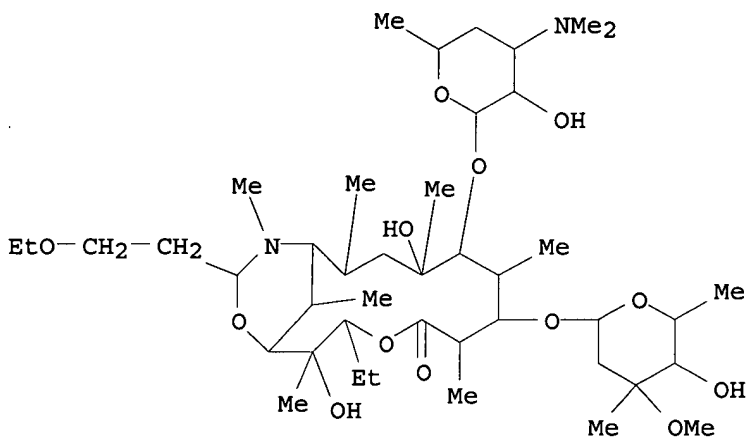
RN 128321-00-6 CAPLUS

CN Erythromycin, 9-deoxo-11-deoxy-9,11-[(methylimino)(2-phenylethylidene)oxy]-
, [9S(S)]- (9CI) (CA INDEX NAME)



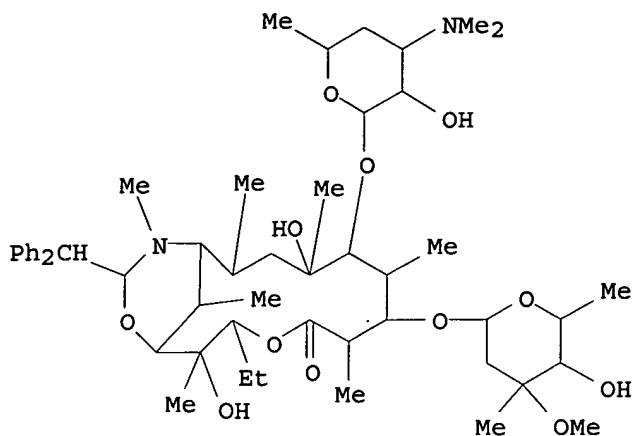
RN 128321-01-7 CAPLUS

CN Erythromycin, 9-deoxo-11-deoxy-9,11-[(methylimino)(3-ethoxypropylidene)oxy]-, [9S(S)]- (9CI) (CA INDEX NAME)

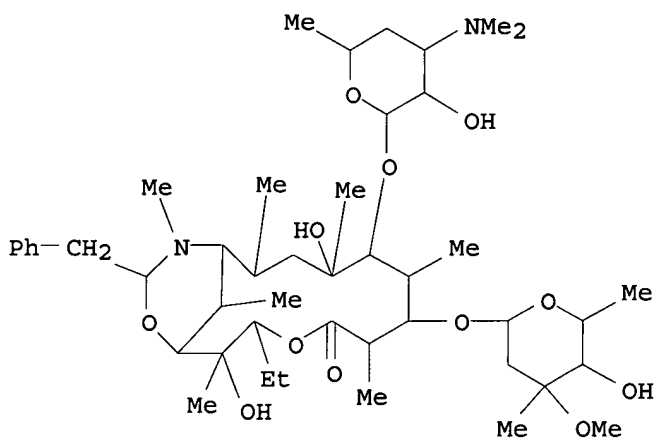


RN 128321-02-8 CAPLUS

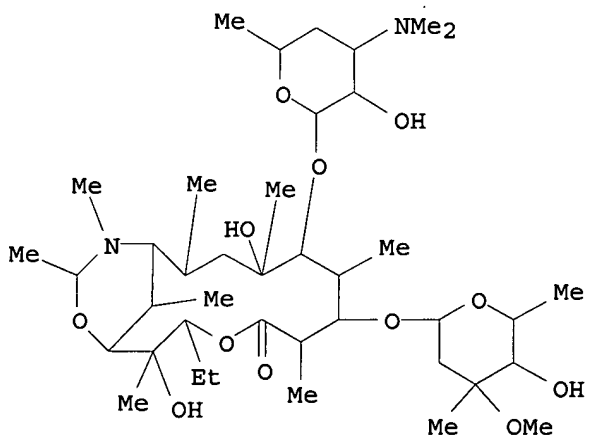
CN Erythromycin, 9-deoxo-11-deoxy-9,11-[(methylimino)(2,2-diphenylethylidene)oxy]-, [9S(R)]- (9CI) (CA INDEX NAME)



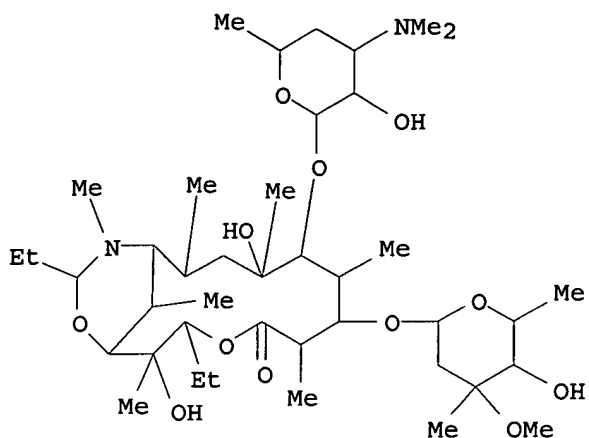
RN 128387-61-1 CAPLUS
 CN Erythromycin, 9-deoxy-11-deoxy-9,11-[(methylimino)(2-phenylethylidene)oxy]-, [9S(R)]- (9CI) (CA INDEX NAME)



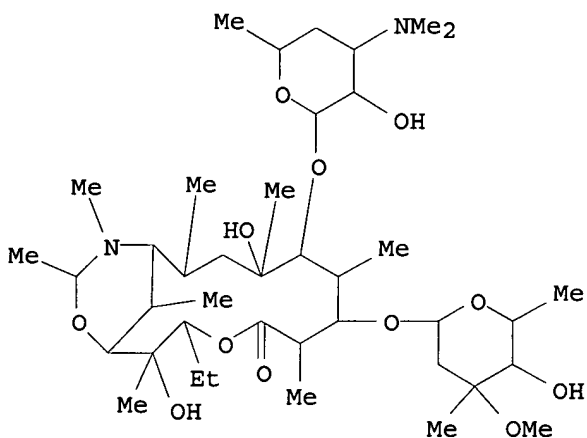
RN 133760-29-9 CAPLUS
 CN Erythromycin, 9-deoxy-11-deoxy-9,11-[(methylimino)ethylideneoxy]-, [9S(R)]- (9CI) (CA INDEX NAME)



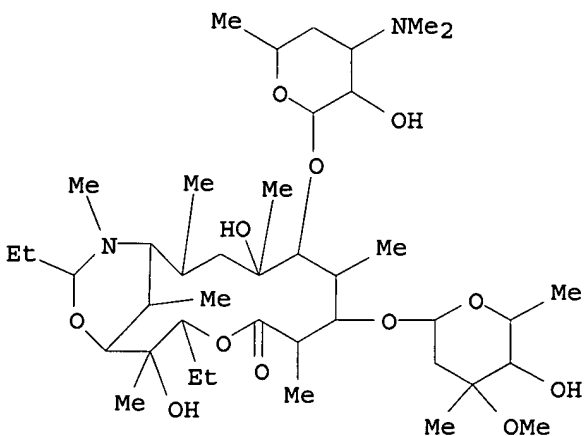
RN 133760-30-2 CAPLUS
 CN Erythromycin, 9-deoxy-11-deoxy-9,11-[(methylimino)propylideneoxy]-, [9S(R)]- (9CI) (CA INDEX NAME)



RN 133814-06-9 CAPLUS
 CN Erythromycin, 9-deoxy-11-deoxy-9,11-[(methylimino)ethylideneoxy]-,
 [9S(S)]- (9CI) (CA INDEX NAME)

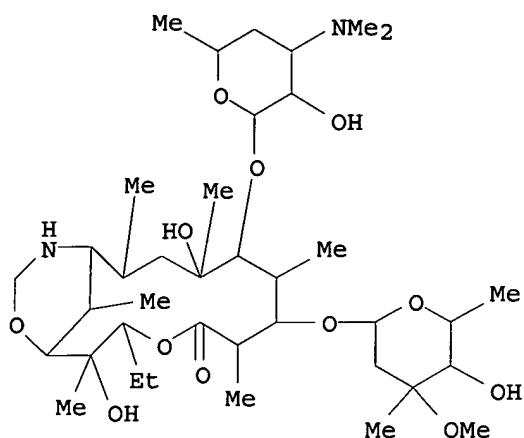


RN 133814-07-0 CAPLUS
 CN Erythromycin, 9-deoxy-11-deoxy-9,11-[(methylimino)propylideneoxy]-,
 [9S(S)]- (9CI) (CA INDEX NAME)

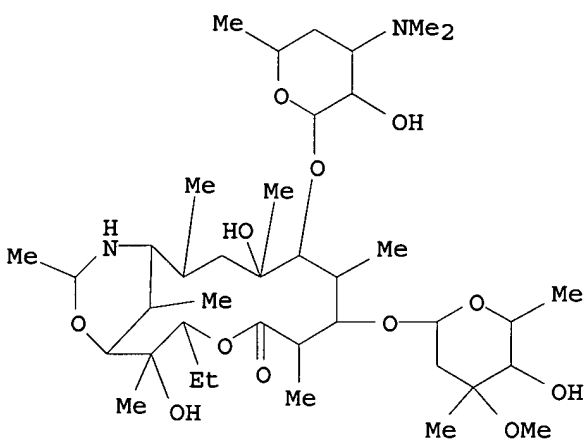


IT 133760-25-5P 133760-26-6P 133760-27-7P
 133814-04-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and reduction of)

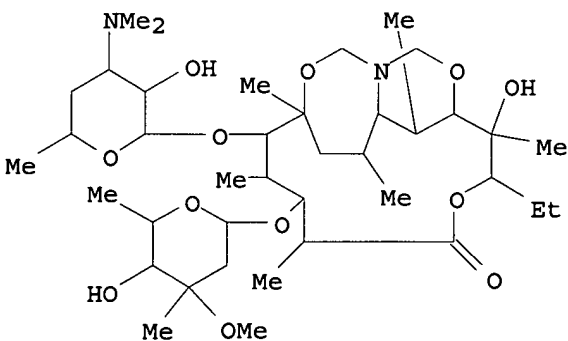
RN 133760-25-5 CAPLUS
CN Erythromycin, 9-deoxy-11-deoxy-9,11-(iminomethyleneoxy)-, (9S)- (9CI) (CA INDEX NAME)



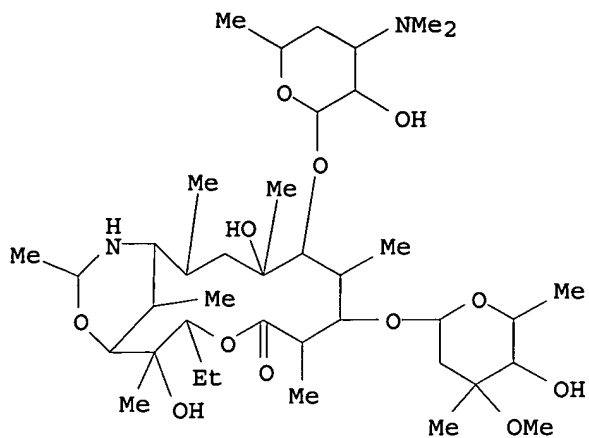
RN 133760-26-6 CAPLUS
CN Erythromycin, 9-deoxy-11-deoxy-9,11-(iminoethylideneoxy)-, [9S(R)]- (9CI) (CA INDEX NAME)



RN 133760-27-7 CAPLUS
CN Erythromycin, 9-deoxy-6,11-dideoxy-9,6,11-[nitrilobis(methyleneoxy)]- (9CI) (CA INDEX NAME)



RN 133814-04-7 CAPLUS
CN Erythromycin, 9-deoxy-11-deoxy-9,11-(iminoethylideneoxy)-, [9S(S)]- (9CI) (CA INDEX NAME)

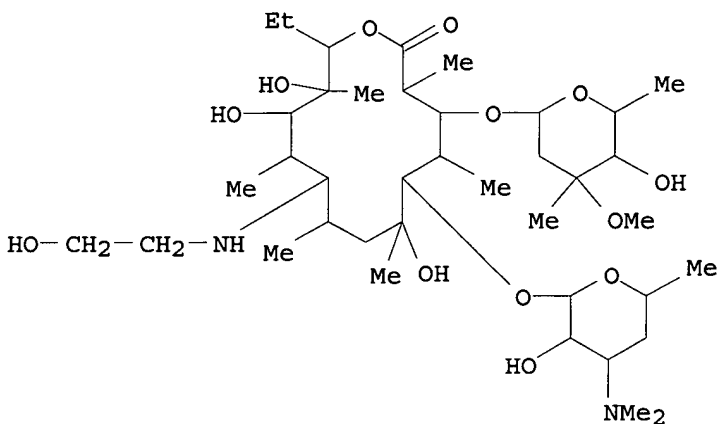


IT 61946-55-2P 112451-98-6P 133760-28-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

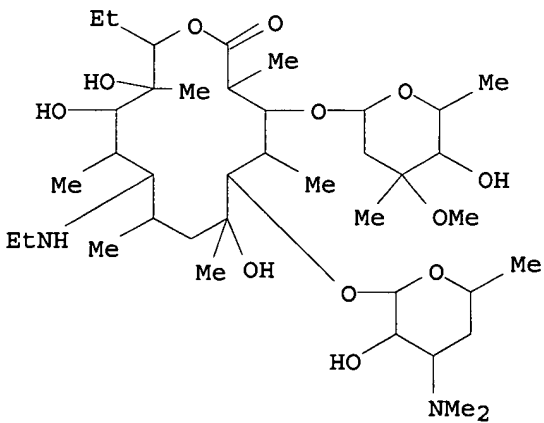
RN 61946-55-2 CAPLUS

CN Erythromycin, 9-deoxy-9-[(2-hydroxyethyl)amino]-, (9S)-(9CI) (CA INDEX NAME)



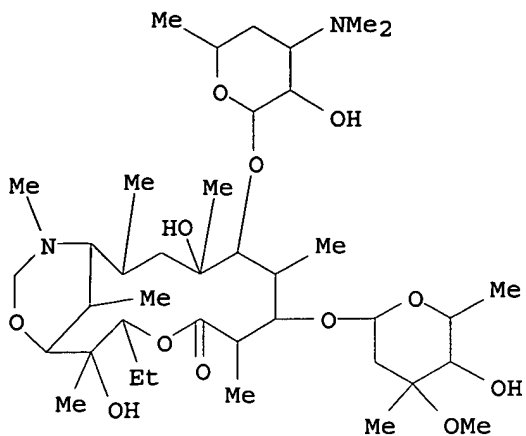
RN 112451-98-6 CAPLUS

CN Erythromycin, 9-deoxy-9-(ethylamino)-, (9S)-(9CI) (CA INDEX NAME)



RN 133760-28-8 CAPLUS

CN Erythromycin, 9-deoxy-11-deoxy-9,11-[(methylimino)methyleneoxy]-, (9S)-(9CI) (CA INDEX NAME)

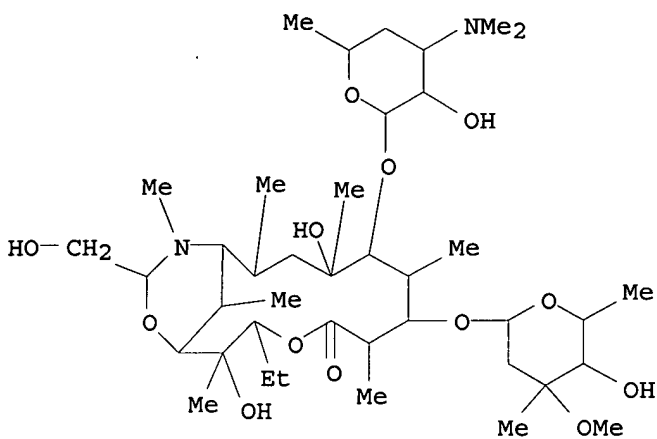


IT 128320-99-0P 128387-62-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, conformation, and crystal structure of)

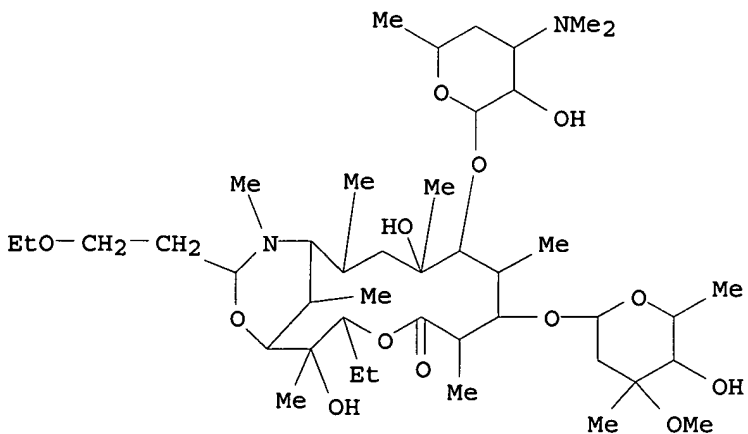
RN 128320-99-0 CAPLUS

CN Erythromycin, 9-deoxy-11-deoxy-9,11-[(methylimino)(2-hydroxyethylidene)oxy]-, [9S(S)]- (9CI) (CA INDEX NAME)



RN 128387-62-2 CAPLUS

CN Erythromycin, 9-deoxy-11-deoxy-9,11-[(methylimino)(3-ethoxypropylidene)oxy]-, [9S(R)]- (9CI) (CA INDEX NAME)



=> dis hist

(FILE 'HOME' ENTERED AT 14:34:09 ON 01 NOV 2005)

FILE 'REGISTRY' ENTERED AT 14:34:24 ON 01 NOV 2005

L1 STRUCTURE UPLOADED
L2 50 S L1 SSS SAM
L3 15690 S L1 SSS FULL
L4 0 S L3 AND BRIDG?

FILE 'CAPLUS' ENTERED AT 14:36:34 ON 01 NOV 2005

L5 25 S L3 AND BRIDG?
L6 3 S L5 AND (AITHROMYCIN OR DESMETHYL OR ROXITHROMYCIN OR CLARITHR
L7 12 S L5 AND (PROCESS OR METHOD OR PRODUCTION OR SYNTH?)

=> s "Or" Yat Sun/AU
L8 148 "OR" YAT SUN/AU

=> s l8 and (macrocy? (a)bridg?)
29752 MACROCYC?
162982 BRIDG?
198 MACROCYC? (A) BRIDG?
L9 2 L8 AND (MACROCYC? (A) BRIDG?)

=> s l8 and bridg?
162982 BRIDG?
L10 9 L8 AND BRIDG?

=> dis l10 1-9 bib abs

L10 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2005 ACS on STM

AN 2005:962271 CAPLUS

DN 143:230147

TI Preparation of bridged macrocyclic erythromycin and azithromycin
compounds via palladium-catalyzed alkylation and cyclization reactions

IN Or, Yat Sun

PA Enanta Pharmaceuticals, Inc., USA

SO PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005080408	A1	20050901	WO 2004-US1907	20040123
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRAI WO 2004-US1907 20040123

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Bridged macrocyclic erythromycin and azithromycin compds. I, wherein L is H, aliphatic, alicyclic, aromatic, heteroarom., heterocyclic; U or V is sugar residue; U and V taken together with the carbon atom to which they are attached form CO, alkylidene; R is H, acyl, silane, hydroxy protecting group; X and Y taken together with the carbon atom to which

they are attached form CO, imine, oxime; X1 is H, halogen; were prepared via palladium-catalyzed alkylation and cyclization reactions. Thus, macrolide azithromycin II was prepared via palladium-catalyzed alkylation and cyclization reactions.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2005:34589 CAPLUS
DN 142:114362
TI Preparation of glycoside bridged macrocyclic compounds as
antibacterial agents
IN Or, Yat Sun
PA USA
SO U.S. Pat. Appl. Publ., 21 pp., Cont.-in-part of U.S. Ser. No. 464,188.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 10

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005009761	A1	20050113	US 2004-763377	20040123
	US 2004023895	A1	20040205	US 2002-205018	20020725
	US 6841664	B2	20050111		
	US 6753318	B1	20040622	US 2002-205357	20020725
	US 2005037982	A1	20050217	US 2003-429485	20030505
	US 6878691	B2	20050412		
	US 2004053861	A1	20040318	US 2003-436622	20030513
	US 6764998	B1	20040720	US 2003-464188	20030618
PRAI	US 2002-144396	B2	20020513		
	US 2002-144558	B2	20020513		
	US 2002-205018	A2	20020725		
	US 2002-205357	A2	20020725		
	US 2003-429485	A2	20030505		
	US 2003-436622	A2	20030513		
	US 2003-464188	A2	20030618		
OS	MARPAT 142:114362				
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The present invention provides a method for preparing bridged macrocyclic glycosides, e.g. I, wherein R is H, acyl, silane, hydroxy protecting group; L and R3 are independently H, aliphatic, alicyclic, aromatic, heteroarom., heterocyclic; one of U or V is H and the other is independently selected from R4, , OR4, OC(O)R4, oxy-amide, S(O)nR4, sugar residue; R4 is H, deuterium, alkyl, alicyclic, aromatic, heterocyclic; U and V, taken together with the carbon atom to which they are attached, are C:O, or UV and R1R2, taken together with the carbon atoms to which they are attached, are -C(R4)CH-; X and Y together with the carbon atom to which they are attached are CO, imine, oxime; X1 is H or halogen; n is 0-2, comprising the step of reacting a macrocyclic compound characterized by having at least two nucleophilic moieties with a bi-functional bridging reagent optionally in the presence of a catalyst, thereby producing a bridged macrocyclic product. Thus, macrolide II was prepared as potential antibacterial agent. This invention also encompasses pharmaceutical compns. containing, and methods of treating bacterial infections through administering, pharmaceutically acceptable prodrugs of compds. produced by the process of the present invention (no data).

L10 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:890622 CAPLUS
DN 142:56597
TI Synthesis of Novel 6,11-O-Bridged Bicyclic Ketolides via a
Palladium-Catalyzed Bis-allylation
AU Wang, Guoqiang; Niu, Deqiang; Qiu, Yao-Ling; Phan, Ly Tam; Chen, Zhigang;

Polemeropoulos, Alexander; Or, Yat Sun
 CS Enanta Pharmaceuticals, Inc., Watertown, MA, 02472, USA
 SO Organic Letters (2004), 6(24), 4455-4458
 CODEN: ORLEF7; ISSN: 1523-7060
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 142:56597

AB A bridging chemical process was developed to form an ether bridge between 6-O and 11-O of erythromycin A via a tandem or stepwise palladium-catalyzed bis- π -allylation. By applying this bridging process, new 6,11-O-bridged bicyclic ketolides (BBKs) were synthesized. These BBKs showed good antibacterial activities against the macrolide-susceptible strains as well as mef-resistant strains and served as a good core for further modifications to study the structure-activity relationship (SAR) and to overcome bacterial resistance.

RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

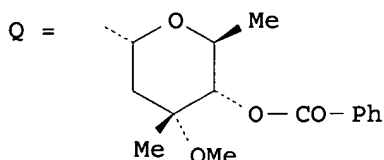
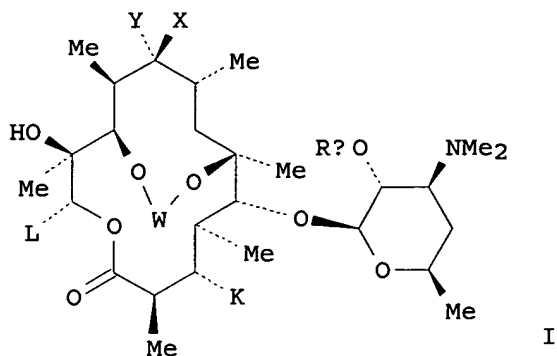
L10 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:101000 CAPLUS
 DN 140:146397
 TI Preparation of 6,11-4-carbon bridged macrolide ketolides erythromycin analogs as antibacterial agents
 IN Or, Yat Sun; Wang, Guogiang; Niu, Deqiang; Phan, Ly Tam
 PA Enanta Pharmaceuticals, Inc., USA
 SO PCT Int. Appl., 80 pp.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 10

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004011009	A1	20040205	WO 2003-US20860	20030701
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 6753318	B1	20040622	US 2002-205357	20020725
	US 2005009763	A1	20050113	US 2004-841249	20040507
PRAI	US 2002-205357	A	20020725		

OS CASREACT 140:146397; MARPAT 140:146397
 GI



AB Novel 6,11-4-carbon bridged erythromycin ketolides I, wherein W is substituted alkylidene, X and Y are independently H, deuterium, OH, alkoxy, amine; XY are together CO, imine, oxime, amide; L is hydroxy-alkyl, alkyl, alkenyl, alkynyl; Z is H, Me, halogen; Rx is hydroxy protecting group; K is H, alkoxy, ester, carbamate, sulfoxide, sugar residue; pharmaceutically-acceptable compns. comprising a therapeutically effective amount of a compound of the invention in combination with a pharmaceutically-acceptable carrier are described. Also described are methods for treating bacterial infections by administering to an animal a pharmaceutical composition containing a therapeutically effective amount of a compound of the invention and processes for the preparation of such compds. Thus, I (W is $-\text{CH}_2\text{CH}=\text{CHCH}_2-$, X and Y taken together with the carbon atom they are attached to form $\text{C}=\text{N}-\text{OH}$, L is Et, Rx = H; K is sugar residue Q) was prepared and tested in vitro as antibacterial agent. The compds. of the invention generally demonstrated an MIC in the range from about 64 $\mu\text{g}/\text{mL}$ to about 0.03 $\mu\text{g}/\text{mL}$.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:100793 CAPLUS
DN 140:146396
TI Preparation of 6,11-4-carbon bridged macrolide ketolides erythromycin analogs as antibacterial agents
IN Or, Yat Sun; Wang, Guoqiang; Niu, Deqiang; Phan, Ly Tam
PA Enanra Pharmaceuticals, Inc., USA
SO U.S. Pat. Appl. Publ., 41 pp.
CODEN: USXXCO

DT Patent
LA English

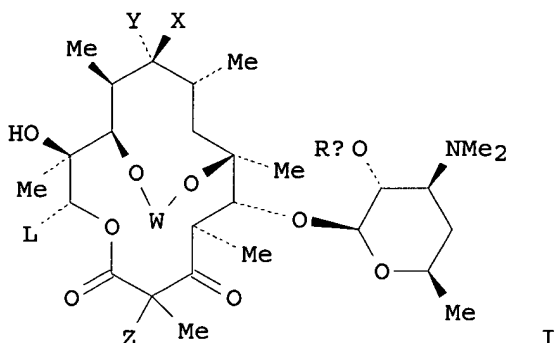
FAN.CNT 10

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004023895	A1	20040205	US 2002-205018	20020725
	US 6841664	B2	20050111		
	WO 2004011477	A2	20040205	WO 2003-US20864	20030601
	WO 2004011477	A3	20040318		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,

KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2005009761 A1 20050113 US 2004-763377 20040123
 US 2004266998 A1 20041230 US 2004-841206 20040507
 PRAI US 2002-144396 B2 20020513
 US 2002-144558 B2 20020513
 US 2002-205018 A 20020725
 US 2002-205357 A2 20020725
 US 2003-429485 A2 20030505
 US 2003-436622 A2 20030513
 US 2003-464188 A2 20030618
 OS MARPAT 140:146396
 GI



AB Novel 6,11-4-carbon bridged ketolides I, wherein W is substituted alkylidene, X and Y are independently H, deuterium, OH, alkoxy, amine; XY are together CO, imine, oxime, amide; L is hydroxy-alkyl, alkyl, alkenyl, alkynyl; Z is H, Me, halogen; Rx is hydroxy protecting group, pharmaceutically-acceptable compns. comprising a therapeutically effective amount of a compound of the invention in combination with a pharmaceutically-acceptable carrier are described. Also described are a method for treating bacterial infections by administering to an animal a pharmaceutical composition containing a therapeutically effective amount of a compound of the invention and processes for the preparation of such compds. Thus, I (W is -CH₂CH=CHCH₂-, X and Y taken together with the carbon atom they are attached to form C=NC(O)CH₃, L is Et, Z = Rx = H) was prepared and tested in vitro as antibacterial agent. The compds. of the invention generally demonstrated antibacterial activity in vitro with an MIC in the range from about 64 µg/mL to about 0.03 µg/mL.

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2000:220726 CAPLUS
 DN 132:237323
 TI Preparation of 6,11-bridged erythromycins as bactericides
 IN Or, Yat Sun; Griesgraber, George; Li, Leping; Chu, Daniel T.
 PA Abbott Laboratories, USA
 SO U.S., 29 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6046171	A	20000404	US 1998-158459	19980922
PRAI	US 1997-63712P	P	19971029		
OS	MARPAT 132:237323				
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Macrolide 6,11-bridged erythromycins I wherein, m is 0-7; n is 0-4; R is independently hydrogen or a hydroxy protecting group at each occurrence; A is absent or is selected from the group consisting of -O-, and -N(R1)-, wherein R1 is hydrogen or C-C6-alkyl optionally substituted with aryl or heteroaryl; B is absent or is selected from the group consisting of -(CH)q-, wherein q is 0-6, -C(O)(CH2)q-, -C(O)O(CH2)q-, -C(O)NR1(CH2)q-, wherein R1 is as defined previously, and -N=CH-(CH2)-; -CH(OH)(CH2)q-, and -CH(OH)CH(OH)(CH2)q-; D is absent or is selected from the group consisting of alkenylene, arylene, substituted arylene, heteroarylene, substituted heteroarylene; alkenylene-arylene, arylene-arylene, substituted arylene-arylene, heteroarylene-arylene, substituted heteroarylene-arylene, alkenylene-heteroarylene, arylene-heteroarylene, substituted arylene-heteroarylene, heteroarylene-heteroarylene, and substituted heteroarylene-heteroarylene; E is absent or is selected from the group consisting of -(CH2)xCH=CH-, -(CH2)xO-, wherein x is 0-4, -(CH2)xNR1CH2CH(OH)-, wherein R1 is as defined previously, -(CH2)xC(O)O-, -(CH2)xNR1-, -(CH2)OC(O)-, -(CH2)xC(O)NR1- and -(CH2)xNR1C(O)-; FG is O; F = sugar residue L, G = H, were prepared as antibacterial agents. Thus I, 2'-R is H, 4"-R is acetyl, m is 2, A is NH, B is -C(O)-, D is 1,3-phenylene, E is -CH=CH-, n is 1 was prepared and tested for its antibacterial activity.

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1999:299483 CAPLUS

DN 130:312022

TI Preparation of 6,11-bridged erythromycins as antibacterial agents

IN Or, Yat Sun; Griesgraber, George; Li, Leping; Chu, Daniel T.

PA Abbott Laboratories, USA

SO PCT Int. Appl., 77 pp.

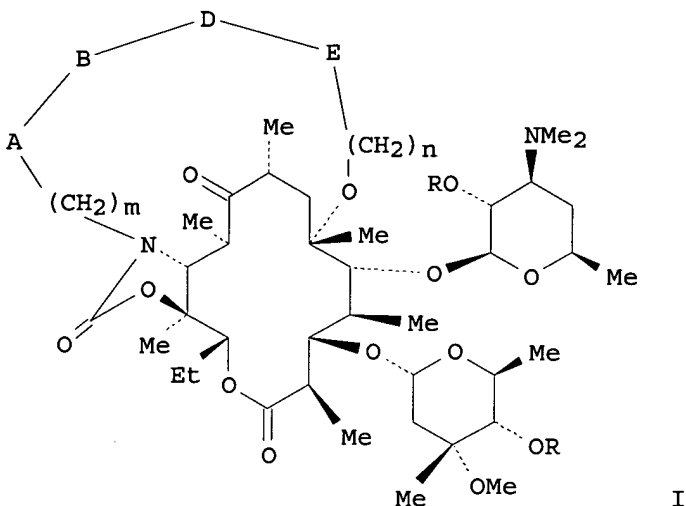
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9921864	A1	19990506	WO 1998-US22941	19981029
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	ZA 9809848	A	19990429	ZA 1998-9848	19981028
	CA 2307828	AA	19990506	CA 1998-2307828	19981029
	AU 9912867	A1	19990517	AU 1999-12867	19981029
	EP 1027361	A1	20000816	EP 1998-956314	19981029
	EP 1027361	B1	20030507		
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, FI, RO			
	BR 9813317	A	20000822	BR 1998-13317	19981029
	TR 200001140	T2	20010521	TR 2000-200001140	19981029
	JP 2001521038	T2	20011106	JP 2000-517973	19981029
	AT 239750	E	20030515	AT 1998-956314	19981029
	PT 1027361	T	20030930	PT 1998-956314	19981029
	ES 2198766	T3	20040201	ES 1998-956314	19981029
	TW 486485	B	20020511	TW 1998-87117981	19981130
	NO 2000002099	A	20000629	NO 2000-2099	20000425
	MX 200004227	A	20001110	MX 2000-4227	20000428
	BG 104425	A	20010131	BG 2000-104425	20000511
PRAI	US 1997-960400	A	19971029		
	US 1998-158269	A	19980922		



I

AB Macrolide erythromycins I ($m = 1-7$; $n = 1-4$; $R = H$, OH protecting group; A = absent, O, NR1; R1 = H, alkyl; B = absent, alkyldiene, keto, amide; D = absent, alkenyl, aryl, heteroaryl; E = absent, carbon chain or one of the carbon is replaced by O, NR1) were prepared as antibacterial agents. Thus, I ($m = 3$; $n = 1$; $R = H$; A, B, D, E = absent) was prepared and tested for its antibacterial activity (MICs = 0.03-100 $\mu\text{g/mL}$).

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1998:479052 CAPLUS

DN 129:122840

TI Preparation of 6,9-bridged erythromycins as bactericides

IN Or, Yat Sun; Clark, Richard F.; Chu, Daniel T.; Plattner, Jacob J.

PA Abbott Laboratories, USA

SO U.S., 20 pp.

CODEN: USXXAM

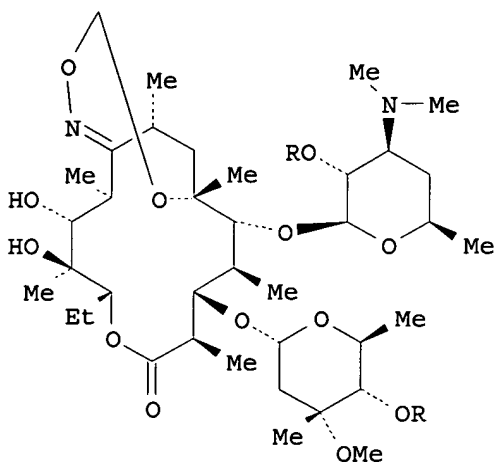
DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5780605	A	19980714	US 1997-925582	19970908
	ZA 9807688	A	19990224	ZA 1998-7688	19980825
	CA 2301643	AA	19990318	CA 1998-2301643	19980901
	WO 9912947	A1	19990318	WO 1998-US18225	19980901
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9892162	A1	19990329	AU 1998-92162	19980901
	EP 1015467	A1	20000705	EP 1998-944680	19980901
	EP 1015467	B1	20040107		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, FI, RO				
	BR 9812148	A	20000718	BR 1998-12148	19980901

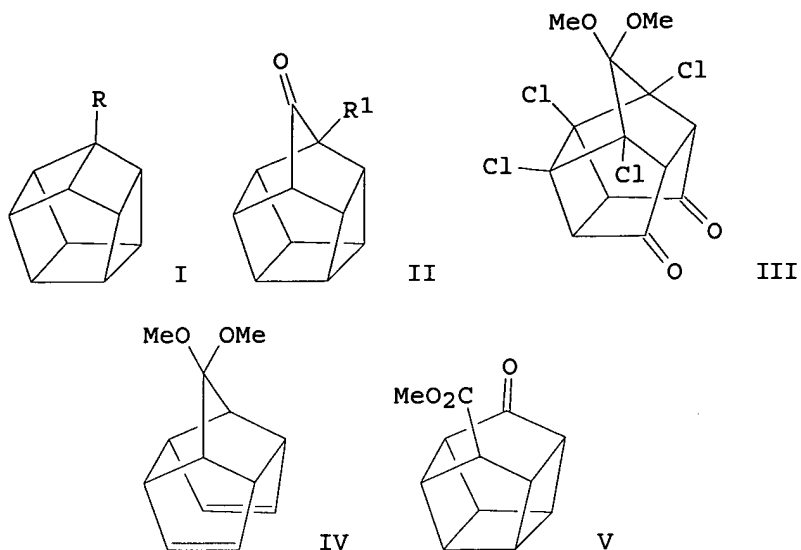
TR 200000620	T2	20000921	TR 2000-200000620	19980901
JP 2001515915	T2	20010925	JP 2000-510753	19980901
AT 257484	E	20040115	AT 1998-944680	19980901
PT 1015467	T	20040531	PT 1998-944680	19980901
ES 2213915	T3	20040901	ES 1998-944680	19980901
NO 2000001169	A	20000405	NO 2000-1169	20000307
BG 104288	A	20010131	BG 2000-104288	20000330
PRAI US 1997-925582	A	19970908		
WO 1998-US18225	W	19980901		
OS MARPAT 129:122840				
GI				



AB Novel multi-cyclic erythromycin compds. and pharmaceutically acceptable salts and esters thereof having antibacterial activity having a formula I (R = H, hydroxy protecting group) comprising a therapeutically effective amount of a compound of the invention in combination with a pharmaceutically acceptable carrier, as well as a method for treating bacterial infections by administering to a mammal a pharmaceutical composition containing a therapeutically-effective amount of a compound of the invention. Thus, I (R = H) was prepared as antibacterial agent (MIC = 0.05-128).

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1987:406819 CAPLUS
DN 107:6819
TI The synthesis of pentaprismene
AU Eaton, Philip E.; Or, Yat Sun; Branca, Stephen J.; Shankar, B. K. Ravi
CS Dep. Chem., Univ. Chicago, Chicago, IL, 60637, USA
SO Tetrahedron (1986), 42(6), 1621-31
CODEN: TETRAB; ISSN: 0040-4020
DT Journal
LA English
OS CASREACT 107:6819
GI



AB A 15 step first synthesis of pentaprismane, (I, R = H), is presented and includes a new synthesis of homopentaprismanone (II, R1 = H) as well as a methodol. for the functionalization of a **bridgehead** position α to the carbonyl group of II (R1 = H). Thus, III was reduced and dechlorinated with Li and Me₃COH-H₂O in NH₃ and the resulting diol was sequentially treated with p-MeC₆H₄SO₂Cl, NaI in HMPA, and then Me₃CLi to give the dimethoxytetracycloundecadiene thus, III was reduced and dechlorinated with Li and Me₃COH-H₂O in NH₃ and the resulting diol was sequentially treated with p-MeC₆H₄SO₂Cl, NaI in HMPA, and then Me₃CLi to give the dimethoxytetracycloundecadiene IV. UV irradiation of IV in Me₂CO and then hydrolysis with 30% H₂SO₄ gave II (R1 = H). Oxidation of II with m-ClC₆H₄C(O)OOH, and then aqueous KOH and RuO₂-NaIO₄, followed by treatment with CH₂N₂ gave oxopentacyclodecanecarboxylate V. Reductive cyclization of V with Na in NH₃ and then oxidation with Cl₂·Me₂S and treatment with Et₃N gave II (R1 = HO). Tosylation of the latter II followed by Favorskii rearrangement (20% KOH) gave I (R = CO₂H). I (R = H) was obtained by heating I [R = C(O)OOCMe₃] at 150° in 2,4,6-(Me₂CH)₃C₆H₂NO₂.

=> dis hist

(FILE 'HOME' ENTERED AT 14:34:09 ON 01 NOV 2005)

FILE 'REGISTRY' ENTERED AT 14:34:24 ON 01 NOV 2005

L1 STRUCTURE UPLOADED
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 L3 15690 S L1 SSS FULL
 L4 0 S L3 AND BRIDG?

FILE 'CAPLUS' ENTERED AT 14:36:34 ON 01 NOV 2005

L5 25 S L3 AND BRIDG?
 L6 3 S L5 AND (AITHROMYCIN OR DESMETHYL OR ROXITHROMYCIN OR CLARITHR
 L7 12 S L5 AND (PROCESS OR METHOD OR PRODUCTION OR SYNTH?)
 L8 148 S "OR" YAT SUN/AU
 L9 2 S L8 AND (MACROCYC? (A) BRIDG?)
 L10 9 S L8 AND BRIDG?